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United States
Department of
Agriculture

Economic Research Service

Foreign Agricultural Economics Report Number 168

World Food Aid Needs and Availabilities, 1981





WORLD FOOD AID NEEDS AND AVAILABILITIES, 1981. International Economics Division, Economic Research Service, U.S. Department of Agriculture. Foreign Agricultural Economic Report No. 168.

ABSTRACT

Low income countries are likely to need more food aid in 1981/82 despite the record crops harvested in 1980/81 and early-season indications of another good harvest in 1981/82. The food aid available from the major donor countries in 1981/82 is likely to be the largest in 3 years, but will still be well below both aid needs and the donation levels of the early and midseventies.

Keywords: Low income countries, food trade, food production, food aid, world food situation.

ACKNOWLEDGMENTS This report was prepared by a number of people in the International Economics Division including: Linda Beeler, Connie Byledbal, Bill Coyle, Mike Cullen, Liz Davis, Wayne Denney, Gary Ender, J. Albert Evans, Amjad Gill, Paulette Hatfield, Bernardine Holland, Jerry Iverson, Richard Kennedy, Michael Kurtzig, Kevin Lanagan, Rip Landes, John Link, Jan Lipson, Eileen Manfredi, Margaret Missiaen, Arthur Morey, Richard Nehring, Patrick O'Brien, Don O'Flynn, John Parker, Sharon Prather, Nydia Rivera, Leslie Ross, Lisa Shapiro, Sharon Sitzman, David Skully, Herb Steiner, Emily Stillman, Paul Trapido, Mary Teymourian, Charles Treakle, Ron Trostle, Larry Witucki, and Mary Wright. Photos on pages 3 and 25 courtesy of FAO.

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SUMMARY

Low income countries are likely to need more food aid in 1981/82 than in 1980/81 despite the record crops harvested during the season just ending and early-season indications of another year of record harvests this summer and fall. The food aid available from the major donor countries in 1981/82 is likely to be the largest in 3 years, but will still be well below both aid needs and the donation levels of the early and midseventies.

Underlying the 68 low income countries' rising food aid needs is a combination of food production and population factors and financial factors. Population increases continue to match, and in many cases, surpass, growth in food production. This results in little gain in per capita food production, and when harvests are poor, in significant drops. As a result, food import needs remain high and continue to rise. Prospects as of mid-June 1981 suggested that the low income countries will need to import 35 million tons of cereals and other food staples in 1981/82 in order to keep their per capita food intake levels from dropping below the average of the past 4 years. This forecast compares with 32-33 million tons imported in 1980/81 and assumes that favorable early-season crop prospects would materialize, preventing any slippage in per capita food production below the 5-year low reported in 1980/81.

The weak financial position of most of the low income countries complicates the situation further by limiting the low income countries' capacity to import food commercially. The financial data available to date suggests that the low income countries' commercial food purchases in 1981/82 will be limited to about 1980/81's level of 22 million tons. This would leave 13 million tons of import requirements to be acquired via donation, purchased concessionally, or foregone. Forecast 1981/82 aid needs include 12 million tons of cereals, 150,000 tons of vegetable oils, and 410,000 tons of nonfat dry milk, valued in total at \$3.2 billion. Since some food aid is generally given on a priority basis to countries outside the group analyzed in this report, the donor countries' aid totals would have to exceed \$3.4 billion for all of the low income countries' needs to be met.

Although detailed information on donor country budgets is not available until later in the year, it appears likely that donations will rise fractionally from \$2.5 billion in 1980/81 to \$2.6 billion in 1981/82. Donations of this magnitude would fund roughly 10 million tons of food aid, including 9.4 million. tons of cereals.

The disparity between forecast aid needs and aid availabilities implies that donor allocations will be smaller than forecast

needs. Given the 4-year averages and status quo methodology used to estimate minimum aid needs, this also implies deterioration in the low income countries' already precarious food situation in the year ahead.

The average food intake level in many low income countries is already well below levels considered nutritionally adequate by the Food and Agriculture Organization and the World Health Organization. Roughly 50 million tons of imports would be needed to raise per capita intake of staples in the low income countries to the levels associated with recommended nutritional minimums. Given the low income countries' commercial import constraints, almost 30 million tons of this total would have to be imported in some form of aid or concessional sale.

Concern with the problems of the low income countries has recently been at least partially overshadowed by a broader concern about the world outlook. World food production stagnated in 1980/81 near the depressed levels reported in 1979/80; given gains in population, world food production per capita fell nearly to the alltime low reported during the 1974/75 food crisis. Weather-related production shortfalls in the Soviet Union, the United States, Australia, and several developing countries were particularly severe and the major cause of this temporarily tightening world food balance.

While 1980/81 world food consumption levels are an alltime high-fractionally above last year's level--per capita levels have fallen marginally below depressed 1979/80 levels. Moreover, even this reduced level of per capita intake has had to be maintained through large drawdowns in stocks, record levels of trade, and sharply higher world prices. World cereal stocks as a percentage of consumption are now near the alltime low reported in 1974/75. As a result, the world will be precariously dependent on the crops harvested later this summer and fall.

As of mid-June, the early-season outlook for 1981/82 was mixed but generally favorable. Food production in the largest developing countries and many of the low income countries is expected to increase substantially and to be on or about trend. Acreage increases are expected in several of the largest countries and weather has been generally favorable. Should these conditions hold through the remainder of the growing season, crops should be large enough to support a limited rebuilding of stocks and some gain in per capita consumption levels. However, crop conditions in the Soviet Union appear to be deteriorating, and a third year of poor Soviet harvests could keep the world food situation tight through 1981/82 and into 1982/83.

World Food Aid Needs and Availabilities, 1981

Economic Research Service
International Economics Division

INTRODUCTION

This report assesses the world food and financial outlook as of mid-June 1981 and its implications for the food import and food aid needs of developing countries in the lowest income developing countries. The report is designed to provide food aid program managers and policymakers with the information needed to make fiscal year 1982 country aid allocation decisions and fiscal year 1983 budget decisions. This assessment complies with the reporting provisions of Public Law 480 as amended by the 1977 International Development and Food Assistance Act. 1/

The report begins by analyzing the outlook for the world supply and demand of basic foodstuffs including cereals, oilseeds, and roots and tubers. Particular attention is given the situation at the end of the 1980/81 season, the 1981/82 outlook, and longer term 1982/83 prospects in the major food aid donor and recipient countries. Also included is an assessment of the financial outlook and its implications for the low income countries' capacity to import food commercially. Detailed statements assessing the food import needs and food aid needs of each of the low income countries follow. 2/ The low income countries' food aid needs are then compared with the aid likely to be available from the major donor countries. The report assumes that the food problems in low income countries are too large, too complex, and too diverse to be solved by massive aid transfers. Food aid is assumed to serve as an insurance program that provides recipient countries with the added supplies

¹/ Public Law 480, Section 408(b), stipulates that the President submit an annual global assessment of food production and needs to Congress.

^{2/} The low income African countries reviewed include Angola, Benin, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Djibouti, Egypt, Equatorial Guinea, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Israel, Jordan, Kenya, Lebanon, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Niger, Rwanda, Senegal, Sierra Leone, Somalia, Sudan, Swaziland, Syria, Tanzania, Togo, Tunisia, Uganda, Upper Volta, Arab Republic of Yemen, People's Democratic Republic of Yemen, Zaire, and Zambia. The low income Asian countries are Afghanistan, Bangladesh, India, Indonesia, Kampuchea, Laos, Pakistan, the Philippines, Sri Lanka, and Vietnam. The low income Latin American countries reviewed are Bolivia, Colombia, the Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Nicaragua, and Peru.

of food staples, such as cereals, necessary to maintain per capita intake during years of poor crops or financial problems that would otherwise limit commercial imports.

The report provides five key pieces of information for each of the 68 low income countries analyzed: 1) the volume of food staples required to maintain per capita intake at the levels reported over the previous 4 years, 2) the supplies of staples available from current production and carryin stocks, 3) each country's food import requirements calculated as the margin between these two estimates, 4) the share of import requirements that can be met through commercial purchases, and 5) food aid needs, or the difference between import requirements and commercial import capacity.

The report also provides a nutrition-based measure of each country's import requirements and food aid needs. It uses the per capita food intake levels associated with the recommended minimum intake of the Food and Agriculture Organization of the United Nations and World Health Organization (FAO/WHO) in place of the previous 4-year average. This nutrition-based measure provides a basis for comparison of food aid needs among countries.

Patrick M. O'Brien

Assistant Director for Situation and Outlook

International Economics Division



CONCLUSIONS

1980/81 Food Situation The world food situation tightened considerably in 1980/81 as food production stagnated near the disappointing levels reported in 1979/80. Given the intervening year's growth in population, world per capita production was more than 4 percent below the recent high reported in 1978/79. Food usage per capita dropped appreciably less, however, due to a sharp drawdown in world food stocks, particularly cereal stocks.

The situation in most of developing countries is brighter than these world estimates suggest. The most disappointing 1980/81 harvests were concentrated in the developed countries and in crops used primarily for feedstuffs. Output of foodstuffs such as wheat and vegetable oils was closer to trend. Stock drawdowns have also been most pronounced in feedstuffs, and concentrated in the developed countries.

Food production in the lowest income countries as a group actually increased by over 2.5 percent to reach an alltime high. This success, however, was marred by the uneven distribution of production gains among individual countries and by increases in population that will keep per capita production near the 5-year low reported in 1979/80.

The food situation in several low income countries deteriorated sharply in 1980/81 due to unusually adverse weather. The situation in East Africa deteriorated from an already weak position due to a second, in some cases third, year of drought-related

production shortfalls in the countries stretching from Somalia south to Zimbabwe. The food situation also worsened in much of West and Central Africa. India suffered from drought severe enough to cut wheat and coarse grain output sharply.

Given these country-specific problems and population pressures throughout Africa, Asia, and Latin America, the low income countries have had to import several million tons more food in 1980/81 than in 1979/80 to maintain per capita intake levels. Given the weak financial performance of the low income countries so far in 1981, the foreign exchange needed to pay for larger food imports is simply not available. As a result, the aid component of 1980/81 food imports has had to be greater than in 1979/80.

Prospects for 1981/82

While it was still very early in the 1981/82 season, the food production outlook as of mid-June is generally more favorable. Food production in the largest developed countries and most of the low income countries appears likely to be on or near trend. Acreage increases are expected in several of the largest countries, and weather to date has been generally favorable. Should these conditions hold, sufficient supplies of most agricultural products should be available to allow gains in per capita levels and some limited rebuilding of stocks. Weather developments over the summer and early fall will, of course, be critical and could reverse the situation.

The 1981/82 outlook for Angola in southern Africa, Morocco in north Africa, and several Asian countries stands out in sharp contrast to the more favorable outlook for the other low income countries. Weather to date has been unfavorable enough to ensure that production in 1981/82 will almost certainly be well below normal. Moreover, for the low income countries as a group, population gains are likely to offset gains in production. As a result, the volume of food imports needed to maintain per capita food intake in 1981/82 at the levels reported over the previous 4 years is likely to increase 2 million tons or more above the 1980/81 high.

The 1981 and 1982 financial outlook for low income countries as a group is bleak enough to suggest little if any increase in their commercial capacity to import food. Many face slower growth in export earnings and capital inflows from the recession ridden developed countries; most also face continued strong increases in their import bills and rising debt service payments. High energy prices will also continue to be a key source of concern.

Projections of the low income countries' food production and usage for 1982/83 based largely on trends suggest that the

volume of imports needed to support per capita intake levels should stabilize near forecast 1981/82 levels. There is no provision in these trend estimates of food production and import needs, however, for any measuring of the gap between per capita status quo intake levels and the recommended minimum per capita intake levels published by FAO/WHO. Financial projections suggest that the portion of the 1982/83 import total that can be imported commercially can not be expected to change markedly. Any improvement in the low income countries' financial position strong enough to increase their commercial food import capacity significantly appears unlikely until economic recovery in the developed countries works its way through trade linkages in 1983 and 1984.

These projections of production and aid needs for 1981/82 and 1982/83 are biased downward. Both are based, at least in part, on the assumption of a continuation of trends in food production in most countries where no other information is available. While production for low income countries as a group is likely to be on or near trend, production for all of the individual countries is not. Production windfalls in most developing countries are translated into stock buildups and reduced imports. They are seldom, if ever, transferred to other low income countries experiencing production shortfalls. As a result, the production shortfalls that will almost certainly develop in some low income countries will raise 1981/82 and 1982/83 food aid needs far more than production windfalls in others will reduce them.

Food Aid Needs

The 1981/82 import requirements and food aid needs of the low income countries are likely to be as large or larger than in 1980/81. Even if production returns to more normal levels in 1981/82 in the countries experiencing the poorest crops in 1980/81, simply maintaining recent per capita food intake levels would force the low income countries to import about 35 million tons of cereals and other staples, compared with the 33 million tons imported in 1980/81. Because of their deteriorating financial situation, the low income countries will be dependent on some form of aid--either donations or concessional sales--for more than a third of this import total. large enough to raise per capita intake of staples in the low income countries to the levels associated with the FAO/WHO's recommended intake minimums would require imports of about 50 million tons of food, two-thirds of which is beyond the low income countries' capacity to purchase commercially.

The food situation is likely to be tightest in Africa. Most of East and Central Africa and parts of West Africa are starting the 1981/82 season with low stocks in the aftermath of 2, in several cases 3, years of poor harvests. In view of the re-

gion's generally mixed 1981/82 production prospects, 21 million tons of cereals and other products will quite likely have to be imported to maintain per capita intake levels at even low 1977/78-1980/81 levels. About 7 million tons of this total will have to be imported concessionally.

The 1981/82 Asian situation is mixed, but generally more favorable than in 1980/81. Parts of Southeast Asia and Sri Lanka report potentially serious production problems that will substantially increase their 1981/82 dependence on imports and aid while other Asian countries are likely to import less food during 1981/82 following bumper harvests in 1980/81. Imports of over 11 million tons of staples would be needed over the coming season to maintain per capita intake levels at recent levels compared to about 10 million tons of imports in 1980/81. About 5 million tons of this total would have to be purchased concessionally or foregone. The Latin American countries analyzed in this report will need to import 4 million tons of cereals and other staples in 1981/82 to maintain recent per capita intake levels compared to about 5 million tons of imports in 1980/81. About 600,000 tons of this will have to be in some form of aid. Imports will quite likely exceed 5 million tons, however, as wealthier countries in the region import more heavily to support growth in livestock feeding, which is not provided for in this assessment. Three countries in the region--Haiti, El Salvador, and Honduras--will continue to depend heavily upon imports for two-fifths or more of their total food intake and upon aid for more than half of their imports.

Balance of Food Aid
Needs and Availabilities

The food aid likely to be available in 1981/82 will fall short of even the limited amount necessary to maintain per capita intake in the low income countries at status quo levels. Availabilities are unlikely to exceed 10 million tons compared to status quo aid needs of 13 million tons. Assuming the continuation of past aid allocation patterns that provide for some movement of aid to countries not covered in this report, the shortfall in aid availabilities could equal 30 to 35 percent of the needs. Aid donations of 10 million tons would meet roughly a third of the need associated with raising per capita staple intake to the levels associated with the FAO/WHO recommended minimum.



THE WORLD FOOD AND FINANCIAL OUTLOOK

The World Food
Situation and Outlook

Concern with the chronically tight food situation in the low income countries was overshadowed in late 1980 and early 1981 by a broader concern over a general tightening of the world situation. World food production increased only fractionally in 1980 from the depressed 1979 level and slipped more than 3 percent below the 20-year trend. With population increasing almost 2 percent per year, 1980 world per capita food production dropped even lower than the level reported during the 1974 and 1975 food shortages (table 1). This marks the third time in the last 2 decades that growth in world food production failed to keep pace with population growth.

In contrast to the 1974 and 1975 situations, however, 1980's poor harvests were largely concentrated in developed countries. Soviet crops were hurt by poor spring and summer weather, while limited supplies of forage and other feedstuffs slowed growth in livestock production. U.S. crop production declined 6 percent due to prolonged and unusually severe drought. Production was also off sharply in Australia, Japan, and South Korea. The developing countries, in contrast, generally fared well in 1980. Record or near-record harvests were reported throughout most of Latin America and large parts of Asia and Africa. The 8-percent increase in output reported in Central America and the 11-percent increase reported in Brazil were almost triple the 20-year trend growth rate. Only Argentina, troubled by serious weather problems, reported any significant decrease in output.

Table 1--Indices of World and Regional Food Production

8

Region and Country		Tot	Total Food Product	Producti	ion	۰			Per	Capita	Per Capita Food Production	duction		
	:1975/76	: :1975/76:1976/77:1978/78:1978/7	1977/78:	1978/79:	9:1979/80:1980/81:1981/82	1980/81	1981/82	I ~	: 1976/77	:1977/78	:1978/79	: :1975/76: 1976/77:1977/78:1978/79:1979/80:1980/81:1981/82	1980/81	$\frac{1}{1981/82}$
						(19	(1969–71 =	100)						
Developed Countries United States	109	109	113	117	119	118	121 123 123	104	103	106	109	111	109	110
Western Europe Japan	: 109 : 103	107 97	109	122 116 105	118 104	123 94	121 121 101	105	103	105	1111	113 94	118 84	115 89
Oceania Republic of South Africa	: 117	122 116	119 124	130	120 124	111	127 133	108	109	106	115	105	96 96	109
Centrally Planned Countries USSR Eastern Europe	: : 108 : 103 : 117	117 115 121	117 114 122	125 123 127	118 114 124	115 111 121	127 123 131	104 98 114	111 109 ·	110 106 116	117 115 120	109 105 117	106 102 113	115 111 119
Developing Countries East Asia 2/ South Asia West Asia 3/ Africa 4/ Latin America 5/	. 116 . 123 . 113 . 125 . 108	119 131 111 137 110	123 136 120 120 108	128 142 124 143 111	126 143 117 141 112	129 141 120 144 113	131 145 124 146 117	103 110 101 109 94	103 114 97 117 93	104 116 103 112 88 107	105 119 104 115 89	101 118 96 110 87	101 113 97 110 85	102 115 99 113 86
		114	117	122	121	121	125	101	102	103	106	103	100	101
Note: Deck.		20100100	4 400	1000	1	1 - 1 -	1	1	-					

Note: Production reported on a calendar year basis; production data shown here is combined with split or commodity-marketing year data to develop a complete supply-demand balance. Hence, 1980 output is associate with 1980/81 trade and disappearance data.

1/ Trend.
 2/ Includes East Asia and Southeast Asia regions shown in table 2.
 3/ Includes North Africa/Middle East regions shown in table 2.
 4/ Includes Central Africa and East Africa regions shown in table 2.
 5/ Includes Middle America, Venezeula, Brazil, Argentina, and Other South America regions shown in table 2.

Most developing Asian countries reported record cereal harvests in 1980 due, in most cases, to bumper rice harvests. In countries such as Indonesia and Bangladesh, where cereal imports had become very large due to faltering harvests in the late seventies, rice harvests have been large enough to permit a significant rebuilding of stocks and gains in per capita consumption.

Several African countries harvested record crops. But even with these 1980 gains, Africa's per capita production slipped for the 15th time in the last 20 years to more than 15 percent below the level reported at the start of the seventies and 20 percent below the level reported at the start of the sixties. Moreover, output in several countries in East Africa and the Sahel was a third or more below the depressed 1979 levels, and more than two-fifths below the levels of the early seventies.

Only limited data are available on aggregate world food indicators other than production. The limited population and income information available to date suggest that world food demand in late 1980 and early 1981, the period during which intake is dependent on the 1980 harvest, has been record-large. On a per capita basis, however, consumption levels have fallen fractionally below 1979/80 levels and several percentage points below the high reported in 1978/79. Moreover, 1980/81 gains in the overall volume of products demanded has come at the expense of a sharp drawdown in world stocks of food and feedstuffs. Cereal ending stocks, which make up the bulk of the world's food reserves, have been drawn down sharply as the 1980/81 season draws to a close, to about the alltime lows reported at the end of the 1974/75 season.

Prospects for Recovery in 1981/82 and 1982/83

The stock drawdowns made in early 1981 will leave the world precariously dependent on the crops to be harvested from mid-1981 through early 1982. Should production over the next 8 to 10 months recover to at or near the trend of the last two decades, supplies of most agricultural products will be large enough to support a significant rebound in 1981/82 per capita disappearance. Any significant rebuilding of stocks would depend on good fall 1982 and spring 1983 harvests.

Should production fall 2 to 3 percent short of trend again in 1981 and early 1982, however, supplies could be tight and prices high virtually worldwide; this would most likely translate into sharp cutbacks in consumption in the most price-responsive areas of the world--particularly the livestock sector in the United States and the food-importing sectors of the low income countries.

Fortunately, prospects to date for the upcoming 1981 harvest have been generally favorable. In the Northern Hemisphere, acreage expansion and mixed, but generally favorable, weather to date should result in larger 1981 winter grain crops and a strong start for spring-planted crops in at least the three largest producing countries—the United States, the USSR, and China.

A number of problems are emerging, however, in the developing countries. In Africa, the Saharan countries continue to experience some dry weather, although soil moisture in most areas—other than drought—struck Morocco—should support near—normal yields. In Subsaharan Africa, many countries face a precarious, albeit improving, outlook. Drought and dry weather in early 1981 in East Africa troubled the countries stretching from Somalia to Tanzania; March and April rains were later and lighter than usual and delayed plantings in several countries, but prospects in May and early June improved sufficiently to suggest a rebound in food production, to well above 1980 levels, if weather conditions are normal for the remainder of the season. Conditions in Southern Africa are mixed; 1981 crops are likely to be well below trend in Angola, poor in Mozambique and Madagascar, but good in Malawi.

Asia's crop conditions are mixed but generally more favorable than a year ago. Potentially serious production problems are reported for Sri Lanka, and less severe weather problems have been reported in areas of the Philippines. Weather conditions to date in most of India, Pakistan, areas of Bangladesh, and Indonesia have ranged from normal to favorable. In all of these countries, however, the summer monsoon will be the major determinant of production. The Latin American situation is generally favorable apart from flooding in Haiti and Peru, but most other areas report normal weather and good prospects for the crops to be harvested from mid-1981 to early 1982.

More detailed comments on the major cereal, oilseed, and root and tuber components of the food total are included in the following sections.

Cereal Situation and Outlook for 1981/82 and 1982/83 The world cereal situation and outlook at the start of the 1981/82 season is unusually volatile; stocks of cereals as a share of consumption are near record-low. Despite the large crops harvested in 1979 and 1980, growth in world demand outpaced growth in production. As a result, stocks have been drawn down from 15.5 percent of consumption in 1979/80, to 13 percent in 1980/81, and to 11 percent at the start of the 1981/82 season. Stock levels over the sixties and seventies averaged more than 15 percent of consumption. Hence, the world will be particularly dependent upon the upcoming wheat and coarse grain crops to

be harvested this summer and fall and the rice crop this fall and early winter.

Fortunately from a developing country point of view, the world cereal situation is somewhat stronger than these stock data suggest. The most severe cereal production problems experienced in 1980/81 were concentrated in the United States and the Soviet Union. Despite very serious shortfalls in parts of Africa, the low income countries actually harvested record cereal crops. Moreover, stocks are tightest in feed grains that are used primarily as feed in the developed countries.

Early prospects for 1981/82 wheat and coarse grain crops are, on the whole, favorable. Area sown in the Northern Hemisphere to winter grains due for harvest in July and August is up sharply in response to favorable producer price prospects. Worldwide, cereal area harvested in 1981/82 could increase more than 1.5 percent. This would be the largest percentage gain in area in 6 years, and would set a new world acreage record.

Weather conditions through June have also been generally favorable. The United States, the USSR, China, and India all expect yields to improve from depressed 1980/81 levels. In the United States, a wet spring followed a dry winter in many areas. A mild winter and low winterkill in the USSR largely offset their reduced winter grain acreage; moisture to date has been sufficient to support normal or near-normal development. Cool weather in several areas of the USSR, however, has retarded plant growth and introduced an element of uncertainty. In China and India, where 1980/81 wheat yields were well below trend, 1981/82 yields are expected to improve significantly. For the other major Northern Hemisphere producers, such as Canada and the European Community, cereal production prospects are nearer normal than last year, and large crops are in prospect.

Based on these prospects to date, world wheat and coarse grain production could increase 6-7 percent to 1,240 million tons in 1981/82. Total cereal production, assuming a trend rice crop, could increase to 1,505 or 1,510 million tons. A total cereal crop of this magnitude would exceed consumption, estimated at 1,470 to 1,475 million tons, for the first time in 3 years (tables 2 and 3). Even with a 6-7 percent gain in production, however, world cereal trade and trade prices will probably remain near 1980/81 levels. Even if major importers such as China and the USSR have good harvests, they are likely to enter the world market to support increases in per capita food and feed usage and to rebuild stocks. Their stock demand, combined with the expanding import demand of developing countries—especially drought—stricken Morocco—could keep world trade near the record 1980/81 level. Moreover, the major exporters are entering the

Table 2--Total Cereals: World Production, Consumption, and Net Exports

		1969/70-1971/72	/72		1978/79			1979/80	••		1980/81			$\frac{1}{1981/82}$	
Region	: Produc-	: Consump- : tion	: Net : Exports	: Produc- : tion	: Consump- : tion	: Net :Exports	: Produc- : tion	: Consump- : tion	: Net : Exports :	Produc- :	Consump- tion	: Net	: Produc- :	Consump- tion	: Net
						M11.	Million Metric Tons	c Tons							
Developed Countries	. 404.0	377.5	31.6	519.4	418.9	90.3	534.1	425.6	114.8	513.0	413.1	125.4	557.8	418.9	125.6
United States Canada EC-9 Other Western Europe South Africa Japan Oceania	208.7 34.4 94.2 28.9 10.1 12.7 15.0	168.9 22.1 111.5 33.7 7.1 27.9 6.3	39.3 14.9 16.6 -4.8 -14.4 10.7	274.6 41.4 116.8 36.9 10.8 12.2 26.6	181.7 22.7 118.8 44.8 9.6 34.5 6.8	94.8 16.2 16.4 19.4 2.5 -23.1 15.4	301.2 35.8 114.3 33.3 14.0 11.8	184.5 24.2 118.2 46.1 10.0 35.5 7.1	111.2 19.5 -1.8 -11.1 3.6 -23.7 17.6	268.0 40.7 120.0 40.1 16.8 9.9	171.1 23.9 117.8 47.2 10.0 36.1 7.0	117.4 19.5 1.7 1.7 -7.6 4.3 -23.7 13.8		٠	·
Centrally Planned Countries	408.7	423.4	0.9-	550.3	566.8	-35.2	507.4	577.6	-53.9	508.3	574.5	-62.7	537.1	582.7	-60.1
Eastern Europe USSR People's Republic of China	75.1 167.4 166.2	82.7 171.8 168.9	-7.3 4.0 -2.7	96.5 227.5 226.3	.108.7 221.7 236.4	-11.9 -13.2 -10.1	91.1 172.9 243.4	105.0 219.3 253.3	-13.6 -30.4 -9.9	96.3	245.6	-15.2 -33.3 -14.2			
Developing Countries	316.5	335.1	-19.6	389.5	433.0	-42.3	374.2	437.7	-56.9	408.0	457.6	-52.7	413.1	9.697	-59.0
Mexico/Central America Venezuela Brazil Argentina Other South America North Africa/Middle East Central Africa East Africa South Asia Southeast Asia East Asia East Asia	16.1 20.4 20.4 19.4 6.8 6.8 11.1 11	17.3 1.8 22.0 11.1 8.9 49.4 23.3 103.5 23.7 6.0 –	1.00	20.4 1.5 24.5 24.5 25.6 7.5 7.5 7.5 11.0 151.0 29.2 39.5 6.0	25.5 3.4 30.6 11.8 11.2 71.7 71.7 26.4 153.5 24.9 7.8	4.8 1.9 1.9 1.9 1.9 1.9 1.5 1.5 1.5 1.8	18.0 1.6 30.0 18.9 8.8 49.8 22.3 140.7 28.4 40.1	27.0 3.5 35.0 9.8 11.8 73.1 27.3 11.2 149.2 26.1 26.1 55.6	19.3 11.9 10.0 10.0 10.0 10.0 10.0 10.0 10.0	21.0 2.0 31.0 29.2 8.2 8.2 22.3 11.4 152.1 39.7 5.6	29.0 4.0 38.5 11.0 17.1 12.1 12.1 12.1 12.5 57.5 7.8	10.6 -2.0 -6.3 -6.3 -18.3 -25.0 -5.2 -1.2 -1.2 -1.8			
World Total	:1,129.2	1,136.0		1,459.1	1,418.7		1,415.8	1,440.9		1,429.3	1,445.3		1,507.8	1,471.3	
= Not published.															

-- = Not published.

Note: Totals may not add due to rounding. 1/ Forecast.

Source: USDA/ERS.

. Table 3--World Cereal Supply and Use

	:	Supply	:		Use	
Region and Country	Beginning	Supply :		•	· :	Ending
negron and oddingry	: Stocks	:Production:	Imports:	Domestic:E		Stocks
	:					
	:	Mil	lion Met	ric Tons		
World	:					
1978/79	: 192.6	1,459.1	182.1	1,418.7	195.1	220.0
1979/80	: 220.0	1,415.8	209.7	1,440.7	214.1	190.5
1980/81	: 190.9	1,429.3	221.3	1,445.3	231.7	164.1
1981/82 1/	: 164.1	1,507.8	223.1	1,471.3	230.1	193.6
1901/02 1/	. 104.1	1,507.0	223.1	1,471.5	250.1	193.0
World Less United	:					
States	:					
	:					
1978/79	: 118.1	1,184.5	181.8	1,237.0	100.0	147.4
1979/80	: 147.4	1,114.6	209.3	1,256.4	102.6	112.3
1980/81	: 112.3	1,161.3	221.0	1,274.2	113.9	106.5
1981/82 1/	: 106.5	1,197.2	222.8	1,293.8	111.1	121.6
_	:					
Jnited States	:					
	:					
1978/79	: 74.5	274.6	• 3	181.7	95.1	72.6
1979/80	: 72.6	301.2	- 4	184.5	111.5	78.2
1980/81	: 78.2	268.0	.3	171.1	117.8	57.6
1981/82 <u>1</u> /	: 57.6	310.6	.3	177.5	119.0	72.0
Vaior Donors 2/	:					
Major Donors $\frac{2}{}$	•					
1978/79	: 109.8	484.9	36.0	342.2	170.2	118.3
1979/80	: 118.3	494.3	35.1	344.3	190.6	112.8
1980/81	: 112.8	473.7	32.0	330.2	202.6	85.7
1981/82 1/	: 85.7	520.9	32.1		206.3	95.7
2,02,02 2,	:	32000	3241	33007	20013	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
68 Low income	:					
Countries	:					
	:					
1978/79	: 30.7	237.3	25.5	262.2		31.3
1979/80	: 31.3	222.9	30.4	267.3		23.4
1980/81	: 25.3	235.0	30.4	267.3		23.4
1981/82 1/	: 23.4	239.5	35.4	272.5		25.8

^{-- =} not reported.

Source: USDA/ERS.

 $[\]frac{1}{2}$ / United States, Canada, Australia, Argentina, and the European Community.

1981/82 season with relatively low stocks. Given these trade and stock considerations, cereal prices should show less weakness than normally associated with good harvests; season average 1981/82 prices could fall only marginally below 1980/81-levels (table 4).

Given the favorable weather experienced in Northern Hemisphere wheat areas to date, the supplies of food aid available in 1981/82 are likely to be appreciably higher than in 1979/80 or 1980/81. Supplies of wheat in the principal donor countries could be at an alltime high, more than 10 million tons above the 1980/81 level. The increase, however, is mainly concentrated in the United States and the European Community; many of the other donor countries will enter the season with unusually low stocks. Australia, in particular, may have sacrificed commercial sales in the first half of 1981 to meet its food aid commitments. The supply situation in most of the aid-recipient countries—albeit with marked exceptions—should be somewhat stronger than last year.

Longer term projections of 1982/83 cereal production based on trend indicate output should be roughly 1,540 million tons, or about 2.5 percent above the 1981/82 level and 7-8 percent above the 1980/81 level. This level of cereal production would ease world market prices further and raise consumption to 1,520 to 1,530 million tons, compared with an estimated 1,455 million tons in 1980/81. Cereal aid needs could be expected to stabilize near the forecast 1981/82 levels; cereal aid availabilities could be expected to continue near the 1981/82 level as other donor countries increase their wheat supplies and the United States disposes of much of its bumper 1981 crop.

1980/81 Oilseed Situation

World production of oilseeds in the last half of 1980 and early 1981 fell sharply from the record 1979/80 level and lagged well below the trend of the last two decades. Soybean, sunflowerseed, and peanut production dropped sharply in the United States, and USSR sunflowerseed production fell to a 5-year low. Groundnut production in Africa was reduced sharply by drought and the cumulative effects of 15 years of stagnating yields and acreage. Only partially offsetting these declines were gains in production elsewhere. India, China, and France all reported larger crops and the South American harvest just completed was record large.

Given this mix of good and bad crops, world oilseed meal output in 1980/81 fell 9 percent below the 1979/80 level (table 5). Output of vegetable oils, however, fell less than 3 percent, due to the large stock of seeds carried over from 1979/80 for crushing during 1980/81 and the relatively high oil content of most of 1980/81 oilseed crops. Given the large stocks of oils carried in

Table 4--Selected World Cereal and Oilseed Prices

Commodity	: :Market- : :ing year:		: 1979/80 : 1979/80 : pre	: 980/81 : 1 liminary : f	981/82 orecast
			Dollars Per	Metric Ton	
Wheat, #1 HRW Ordinary Protein f.o.b. U.S. Gulf Ports	u: June/ :	141	173	186	183
Rice, 5% Broken f.o.b. Bangkok, Thailand	: July/ : : June :	331	387	460	480
Corn, #2 f.o.b. U.S. Gulf Ports	: July/ : : June :	106	119	145	140
Soybean Meal, 44% Protein Decatur	: Oct./ : Sept. :	210	201	251	270
Soybean Oil Decatur	: Oct./ : Sept. :	601	531	518	550
Copra Northwest European Markets	: Jan./ : Dec. :	470	673	453	395
Peanuts Northwest European Markets	: Jan./ : Dec. :	621	565	489	700
Palm Oil Northwest European Markets	: Jan./ : Dec. :	600	654	584	610

Source: USDA/ERS estimates.

Table 5--World Production, Consumption, and Stocks of Protein Meals and Edible Vegetable Oils

Commodity	Unit	: :1978/79 :	: 1979/80 :	: 1980/81 : preliminary	: : 1981/82 :forecast
	1	:			
Protein Meal Production, World	Mil. met. ton	: 833	96.0	87.1	91.0
Protein Meal Use, World	Do.	: 837	89.8	88.7	90.5
Change in U.S. and Brazilian soybean stocks	Pct.	: -4 :	+6.2	-1. 6	+•5
Edible Oil Production, World	Mil. met. ton	371	41.0	39.8 .	40.6
Edible Oil Consumption, World	Do.	371	40.8	39.4	40.4
Change in U.S. Soybean Oil Stocks	Pct.	: + 2 : :	+.20	+.36	+.2

Source: USDA/ERS estimates.

at the start of the season and the relatively small drop in vegetable oil production, the supplies of vegetable oils available for use in 1980/81 have been sizable enough to overshadow an otherwise tight oilseed market. This large supply, combined with weaker than expected demand for vegetable oils, has dampened prices in the entire oilseed complex so far this season and will likely continue to overshadow the oilseed outlook into 1982/83.

The impact of this vegetable oil surplus has been most pronounced in the soy oil sector. Growth in world consumption of soy oil so far this year has lagged well below the year-earlier rate; many developing countries have shifted consumption toward other low-priced, higher preference oils. The impact on trade has been even greater; estimates of 1980/81 U.S. soy oil exports are 35 percent below the 1979/80 level. This slackened demand has resulted in weaker prices and a sharp buildup in U.S. stocks; U.S. carryout stocks are expected to be up 450,000 tons, or 80 percent, at the close of the 1980/81 marketing year.

Outlook for Oilseeds in 1981/82 and 1982/83

Prospects to date for oilseed production in 1981/82 are mixed. Recovery in production is expected in the United States despite a somewhat lower planted acreage; gains in output are also expected in the USSR, and China and India have emphasized expanding oilseed output in their 1981 and 1982 plans. As a result, output of seeds worldwide could increase 5 to 7 percent from reduced 1980/81 levels.

The composition of likely 1981/82 gains in oilseed production should cause meal supplies to increase faster than oil sup-The large stocks of oil carried over from 1980/81 will continue to overhang the market. As a result of these ample supplies of low-priced oils, the outlook for oil-importing developing countries should continue to be favorable for the remainder of 1981 and into 1982. Several low income countries are expanding imports of relatively cheap vegetable oils while expanding their exports of more valuable oils. in import demand for vegetable oil has been been particularly strong in African countries such as Senegal, Zaire, Ghana, and Kenya. Income and population growth forecasts suggest that their demand will continue strong. But low foreign exchange reserves could keep commercial imports below the level of vegetable oil purchases required to satisfy demand and, in several cases, to maintain per capita intake.

The supplies of oil available for aid donation are large, however, and with prices weakening, domestic interests in the major donor countries could well push for substantially higher oil donations in 1981/82 than the 300,000 tons donated in 1980/81.

The oilseed outlook could prove unfavorable for developing countries that export oilseeds. Several low income countries depend on oilseed exports as a major source of foreign exchange. The surplus oil situation could well increase these countries' need for aid to offset losses in oil export earnings ordinarily earmarked for commercial food imports.

Given a return to longer term trend production and consumption of oilseeds in 1982/83, the stock and price situation would change. Prices could average 10 to 20 percent above current levels and some drawdown in oil stocks and buildup in meal and seed stocks could be expected. Past performance in the low income countries, however, suggests that most of the gain in production and consumption would likely be in the developed countries and two or three individual low income countries, such as India and Pakistan.

Roots and Tubers Situation and Outlook for 1981 and 1982 Roots and tubers such as cassava, sweetpotatoes, and yams are an important food source providing half or more of caloric intake in many tropical low income countries. These commodities are generally subsistence crops consumed locally, and seldom enter international trade. 3/ Windfalls or shortfalls in production of these products, however, is often a key determinant of the low income countries' food import requirements and aid needs.

Production of roots and tubers in Latin America, Africa, and Asia increased a modest 1 percent annually in the seventies from 155 million tons to 172 million tons (table 6). On a wheat equivalent basis, production at the end of the seventies was equal to about 54 million tons of wheat or 14 percent of the low income countries' cereal production. 4/

The 1980/81 situation and 1981/82 and 1982/83 outlook for roots and tubers in the low income countries are mixed. The crop harvested in late 1980 and used until the next major harvest in the fall of 1981 was somewhat larger than the 1960-80 trend would suggest. The crop, however, was well below the level needed to keep per capita intake from slipping several percentage points below 1979 and 1980 levels and more than 15 percent below the level reported a decade ago.

Roots and tubers play a particularly critical role in Africa, where they often account for one-quarter to two-fifths of total food intake. Production of cassava, the major African root

^{3/} A notable exception is Thai trade in cassava, used as livestock feed in the developed countries.

^{4/} Assumes a caloric value of 1,000 cal./kg. for roots and tubers and 3,000 cal./kg. for wheat.

crop, was reported up 3 percent in 1980 to almost 50 million tons, and could reach 53 million tons in 1981. Larger area was planted in Nigeria and Zaire; increased price supports and several new government policies also encouraged expansion of production in Angola, Mozambique, and Tanzania. Production in several other countries of Central, West, and East Africa also increased slightly due to what appears to be early harvest of root crops to help compensate for poor cereal crops. Cassava can be harvested over an extended period of time, often up to 6 months after maturity. In very few countries, however, did production increase sufficiently in 1980 or is expected to increase fast enough in 1981 to raise per capita availabilities.

Production of roots and tubers in Asia increased fractionally in 1980 to 48 million tons and is unlikely to increase to more than 49 million tons in 1981. While generally less important as a food source than in Africa, roots and tubers account for 5 to 10 percent of food intake in Indonesia, Vietnam, the Philippines, and Sri Lanka. Gains in output in 1980 were concentrated in Thailand, where yields rebounded from depressed 1979 levels. Thai production, however, is grown mainly for the feed export market. Output in Indonesia, where cassava is used primarily for food, was down 7 percent due to unfavorable weather. The reduced Indonesian harvest may also have been due to a bumper rice harvest that allowed farmers to postpone at least part of the root harvest until 1981.

Production of roots and tubers in Latin America in 1980 was reported fractionally below 1979 levels. Output in the key producing countries of the region has not kept pace with growth in population and in several countries has fallen faster than growth in the supplies of food available from alternative sources. Given the stable area and yield trends associated with root crop production, it is safe to assume that developing countries' production in 1982 will be up marginally from 1981 levels. On a wheat equivalent basis, production could rise from 54.6 million tons in 1980 to 55 million tons in 1981 and possibly 55.5 million tons in 1982. Should this trend hold, many of the lowest income groups in the developing countries will see a major low cost component of their diet become increasingly scarce.

The World Financial
Situation and Outlook

World economic activity is forecast to strengthen in the fourth quarter of 1981 and early in 1982 as recovery from recession spreads from the industrialized countries via trade and financial linkages to the rest of the world. Government and private forecasters here and abroad suggest that real growth in the industrialized countries will increase I percent in 1980, 1.5 percent in 1981, and possibly 3.5 percent in 1982. Underlying these forecasts, however, are uncertainties about oil price increases and the monetary and fiscal policies adopted in several

Table 6--Root and Tuber Production in Developing Countries

Region	: 1969-71 : 1971 : 1972 : : Average : :	1971 :	1972 :		1974 :	1975	1976:	1977	: : : : : : : : : : : : : : : : : : :	: 1979 :		: 1980 : 1981 <u>1</u> /
					Mi 1	Million Metric Tons	ric Tons					
Latin America	46.5	47.4	45.6	6.44	41.8	42.6	43.2	44.5	6.44	44.1	44.3	43.9
Africa	66.5	67.7	68.2	70.9	71.6	74.6	76.9	76.7	76.9	79.0	80.0	80.5
Asia	42.1	40.7	41.6	45.4	45.1	46.1	47.4	47.0	6.74	48.6	48.1	48.6
Total	155.1	155.7	155.3	158.2	158.4	163.3	167.6	168.2	169.7	171.6	172.3	173.0
Wheat equivalent:	9.67	8.64	7.65	50.7	9.05	52.1	53.3	53.5	53.9	54.3	54.6	55.0
						Kilograms	ams					
Per capita wheat equivalent	29.8	29.1	28.4	28.2	27.5	27.7	27.6	27.0	26.6	26.2	25.7	25.4
1/ Trend												

 $\frac{1}{2}$ / Assumes a caloric value of 1,000 cal./kg. for roots and tubers and 3,000 cal./kg. for wheat.

Source: USDA/ERS food production system.

recession-ridden developed countries to stimulate business activity while slowing inflation. Continuing high interest rates in the United States, Germany, and Japan also add uncertainty and suggest a longer period of recovery. Forecasters also agree that the post-recovery period could well be characterized by lower equilibrium growth rates and higher inflation rates than experienced following previous recoveries.

Developing Country Perspective

Petroleum price hikes and recession in the industrialized countries in 1979 and 1980 weakened the trade positions of the low-income oil importing countries and slowed their overall economic growth rates. Recovery in the developed countries in late 1981 and 1982 will boost trade and economic growth rates in the developing countries, but only after a considerable lag stretching well into 1983. As a result, economic growth in the developing countries could lag at 5.0 percent and 5.5 percent in 1981 and 1982, respectively, compared with 6 percent in the sixties and seventies.

Forecasters agree that this prognosis of slowed growth is due to the interaction of a number of country-specific and international factors. Many developing countries face the prospect of weak demand and low prices for their primary products, including coffee, cocoa, iron ore, copper, tin, and lead. Although oil prices are on a downtrend on the spot market, oil imports as a share of export earnings in most developing countries remain high and limit the foreign exchange available for other imports. As a result, a number of countries will have to continue to restrict imports of capital equipment and consumer goods such as foodstuffs in order to pay for petroleum imports and minimize borrowing to finance trade deficits.

Rationing of export earnings notwithstanding, many developing countries have grown increasingly dependent on earnings from sources other than exports--i.e., workers' remittances, tourism receipts, foreign direct investment, and commercial capital and aid inflows--to maintain their balance of payments. Growth in receipts from all of those items, however, will probably weaken or stagnate through 1982. Remittances will drop as economic activity in the industrialized and oil-exporting countries continues slow; weakened oil prices and slowed economic activity will displace migrant workers and reduce earnings from the labor-short Middle Eastern countries in particular. Tourism receipts are likely to remain low during the slow economic recovery expected over the year ahead. Despite the incentives provided by many developing country governments, multinational enterprises appear hesitant to invest in new plant and capital equipment while the world economy is weak and utilization of plant capacity in many of the more developed countries remains low.

Also at play are an unusually large number of internal and international conflicts that have disrupted local economies, reduced export earnings, hampered the distribution of imported goods, and limited economic growth. Civil disorders are disrupting the production and distribution of goods and services in more than a dozen countries. In several cases, including Lebanon and El Salvador, disorders may escalate into open warfare. Compounding the economic strains resulting from this civil unrest is the flight of capital reported in most of these countries and its debilitating effect on import financing, exchange rates, and international reserves.

Virtually stagnant production of agricultural and industrial products is also contributing to the weakened financial position of many of the developing countries. Imports of many key inputs and spare parts have been limited by tightening foreign exchange constraints; many developing countries have sacrificed imports needed to promote long-term growth in order to pay for short-term necessities. As a result, their capacity to respond to improved export market opportunities has weakened considerably. For many countries, the increasingly restrictive import policies adopted over the last year will mean even slower increases in production in 1981 and 1982.

These diverse international and domestic problems are not expected to ease until late 1982 or into 1983. As a result, the oil importing developing countries, as a group, will be in an even weaker position to import food commercially in 1981 and 1982 than in 1979 or 1980. The calculations used in this report to gauge commercial food import capacity are based on estimates of export earnings, import expenditures, capital flows, and debt service payments. Country-specific estimates of these key variables are shown in tables 1, 4, and 7 of the appendix.

	Low Incom	e Countries'	Export Earning	gs
Region	1977/80 Average	1980 Preliminary	1981 Projection	1982 Projection
		Billio	on Dollars	
Africa and Middle East	. 24	31	36	43
Asia	31	43	50	59
Latin America Total	15 70	19 93	21 107	24 126

Export Earnings. The export earnings of the 68 low income countries analyzed in this report are expected to increase more than 14 percent in 1981, to possibly \$107 billion. Earnings are also projected to rise in 1982, but at a faster 17-percent rate that would push the total above \$126 billion. Despite these substantial nominal increases, however, real gains in earnings adjusted for world inflation will lag at possibly 2 percent and 5 percent, respectively, in 1981 and 1982.

In most cases, the gains in export earnings reported in late 1980 and so far in 1981 have been due to growth in the volume of primary products exported barely offsetting declines in unit prices. Several countries dependent on exports of one or two commodities have been particularly hard hit by falling prices. Lower coffee and cocoa prices affected many countries in Africa and Latin America. Prices for coffee, cocoa, and many other primary commodities have continued their downward trend into 1981 and are expected to remain low in 1982. Import demand and international prices for other key exports such as rubber, tin, copper, iron ore, and lead are not expected to rebound until sometime after industrial production picks up in the OECD countries. As a result, the initial gain in export volume expected as the industrialized countries recover from recession will be critical if projected 1981 and 1982 gains are to be realized.

Contrary to this general pattern, several individual low income countries have enjoyed rising export earnings due to volume or price gains so far in 1981. Bananas, phosphate rock, rice, and sugar prices have strengthened, either raising export earnings or keeping earnings stable in the face of declining export volume. For countries like Cameroon, newfound petroleum reserves should improve trade balances.

Import Expenditures. The import bills of the low income countries are projected to increase substantially in 1981 and 1982 due to increases in unit prices rather than volume gains. In fact, many countries may actually pay more for a lower volume of imports. Slowed growth or stagnation in import volume will be particularly troublesome for countries with low growth rates; curtailed imports of capital goods in 1981 and 1982 could work to limit growth potential through the middle and late eighties.

Imports are projected to grow 15 percent to over \$141 billion in 1981 and by 17 percent to about \$163 billion in 1982. These projected increases in import expenditures are lower than forecast earlier in 1981. Petroleum prices are not expected to rise as rapidly through 1982 as they did during the 1977-80 period. Other factors that may help moderate import growth

will be government policies restricting imports, increasing debt and credit constraints, and infrastructural and capital equipment deterioration. But in any case, forecasters agree that the imports of the low income countries could exceed export earnings by \$30 to \$35 billion in 1981 and \$37 to \$42 billion in 1982.

Capital Flows and Debt Service Payments. The next 18 months are likely to prove difficult for low income countries dependent on capital flows and transfers to meet balance of payments deficits. Access to capital markets is likely to be limited by increased worldwide competition for funds, by higher interest rates, and by growing doubts in many financial institutions about the credit-worthiness of many developing countries. Aid transfers from industrialized nations are not likely to increase substantially due to budgeting priorities and constraints of donor countries. Capital flows and concessionary loans and grants from international financial institutions could also weaken because of the large number of countries in need of assistance, because of such institutions' increasing borrowing costs, and because of slowed increases in contributions from donor-country subscribers.

Moreover, the debt service payments of many low income countries due on debt contracted in the midseventies' first round of oil price increases are becoming a serious drain on their export earnings and reserves. Pressures on their international reserves and economic and financial difficulties may force a rising number of low income countries to seek rescheduling or debt forgiveness within the next year and a half.

Low Income Countries' Total Imports	
-------------------------------------	--

Region	1977/80	1980	1981	1982
	Avg.	Prel.	Fore.	Proj.
		Billion	Dollars	
Africa and Middle East	44.0	53.0	60.0	69.0
Petroleum Component	2.8	4.2	5.2	6.2
Asia Petroleum Component	34.0	51.0	60.0	70.0
	5.7	9.6	9.7	11.3
Latin America Petroleum Component	16.0	19.0 1.4	21.0	24.0
Total Petroleum Component	94.0	123.0	141.0	163.0
	9.5	15.2	16.6	19.4

Low Income Countries' Debt Service Payments

Region	1977/80 Avg.	1980 Prel.	1981 Fore.	1982 Proj.
		Billio	n Dollars	
Africa and				
Middle East	5.1	7.5	7.9	8.1
Asia ·	4.1	4.8	5.3	5.6
Latin America	2.8	4.0	3.9	4.0
Total	12.0	16.3	17.1	17.7



FOOD AID NEEDS

The following section details the food situation and outlook in the individual low income countries. The country descriptions focus on 1981/82 and 1982/83 food import and food aid needs and take into account both a country's agricultural situation and its financial position.

Introduction

Several basic assumptions regarding the definition of food needs and the role food aid is to play in meeting them had to be made before a measure of aid needs applicable to a wide range of countries could be made. This report uses two methods described fully in the methodological note.

The first method calculates how much food each low income country would have to import in 1981/82 and 1982/83 to maintain per capita intake of basic staples—such as cereals, roots and tubers, and pulses—at the average level reported over the 4 previous years. The share of this status quo food import need a particular country can import commercially is estimated using financial indicators such as export earnings, import bills, international reserves, debt service obligations, and petroleum import bills. The margin between food import needs and commercial import capacity is used as a measure of food aid needs.

The second method used calculates how much food each country would need to import in order to raise per capita intake of basic staples to the levels associated with the FAO/WHO recommended food intake minimum. The same commercial import cal-

culation was used to move from a nutrition-based measure of food need to a food aid need measure.

The regional and country statements that follow use both status quo and nutrition-based calculations in an effort to provide readers with a idea of the aid required simply to prevent any deterioration in the low income countries and an idea of the severity of the low income countries' malnutrition problems. The nutrition method also provides a basis for the ranking of individual country aid needs included later in the report.

Information Sources

The information used to calculate food import and aid needs was taken from a number of sources. Estimates of production, stock levels, and commercial import capacity, as well as the commodity coverage, used in calculating the nutrition-based and status quo-based aid needs are the same. Estimates of production are drawn from the current intelligence collected by the Department of Agriculture, the FAO, and several other sources. Estimates of commercial imports are tied directly to information on a country's reserves, export earnings, debt service obligations, and historical foreign exchange expenditure patterns. Historical stock levels are used to define a minimum stock level, to be maintained by aid if need be, and a maximum stock level above which stocks are to be drawn down before any food aid is given. Analysis is done for basic food staples -- such as cereals, roots and tubers, pulses, and oilseeds--that make up two-thirds of the country's total food supply.

Africa and the Middle East

Food import requirements in the 41 low income African and Middle Eastern countries analyzed in this report are expected to decrease somewhat in 1981/82 from 1980/81 levels, as production of food staples recovers in large areas of East, Central, and West Africa from severe and prolonged drought. Weather developments over the summer and fall will be critical and could change this prognosis for improvement dramatically. Moreover, given most of the countries' relatively weak stock positions, poor crops later in 1981 and early in 1982 would be translated almost directly into sharply higher import needs or lower per capita intake levels.

Prospects for Morocco and Angola differ sharply from the outlook for the other low income countries of the region; drought early in 1981 will cut cereal output severely and raise food import requirements well above year-earlier levels.

Given the limited capacity of the low income African countries to finance commercial imports, food aid needs will continue to be large despite a forecast drop in overall import needs. As much as 7 of the 20 million tons of cereal imports needed to maintain per capita food intake in 1981/82 at the average reported over the previous 4 years would have to be donated

or purchased concessionally. This compares with 5 to 6 million tons in 1980/81.

Over 70 percent of Africa's 1981/82 aid need is concentrated in Egypt, Kenya, Morocco, Mozambique, Somalia, Sudan, Tanzania, and Uganda. However, nearly every country in the region shows some aid need. Virtually all the countries of the region must feed rapidly growing populations. Most also face worsening financial problems. Petroleum import costs are expected to grow from 29 percent of export earnings in 1980 to over 32 percent in 1981. Currency reserves are expected to decline significantly from 13 percent of the region's 1977-80 import bill to 10 percent of its 1981 bill. Although 43 countries should enjoy some increase in export earnings this year, 33 are likely to face deteriorating trade balances as import bills grow appreciably faster.

Food prospects for low income Africa for 1981/82 take on an even bleaker look if import requirements and aid needs are estimated using a nutritional norm rather than a status quo per capita intake norm. The imports needed to raise per capita intake to the levels associated with the FAO/WHO norms, given even the production rebound forecast for 1981/82, would be 5 to 10 million tons higher. Africa's commercial import capacity is adequate to cover less than two-thirds of this volume.

From a longer term 1982/83 perspective, African food aid needs should decline markedly from the levels forecast for 1981/82. Moroccan and Angolan production of staples should recover and stock rebuilding import needs in the areas of Africa worst hit by 1980's drought will be lower. However, most of the other countries could register moderate increases in food aid needs in 1982 as lower currency reserves, higher debt, and inflation trim their purchasing power.

Country-specific notes follow, organized to reflect the relative severity of their 1981/82 needs.

Morocco, Kenya, Tanzania, Mozambique, Sudan, Egypt Morocco. An unusually severe drought early in 1981 in Morocco's key wheat and barley areas will reduce 1981 cereal production sharply. Only production of corn--planted late in the season--is expected to fare well in one of the driest years in Morocco since World War II. The beneficial effects of scattered rains during March and April and expanded corn acreage in irrigated areas offset worse-than-expected wheat yields and poor dryland corn production. The net result is likely to be a shortfall in cereal production of possibly over 1 million tons to be made up through imports. This shortfall-related import need, combined with Morocco's

normal dependence on imports, nearly doubles import requirements to over 3.5 million tons.

Morocco's financial position has also weakened over the last year. The country's debt service relative to its export earnings is among the highest of all the African countries. Morocco's currency reserves have been drawn down sharply to meet debt service and related demands. The country's trade deficit, reported at \$1.72 billion in 1980, is expected to worsen due to growing imports of war material and drought-related increases in food imports.

As a result, Morocco will be dependent on concessional purchases to cover as much as half of its 1981/82 cereal imports. Much of this requirement has already been filled by the European Community. France has offered Morocco 800,000 tons of wheat and barley under soft credit terms. U.S. contributions are limited by P.L. 480 budget constraints; CCC credit arrangements could play a role in meeting the balance of Morocco's aid needs.

Kenya. Planting of this year's cereal crop is proceeding well in Kenya and weather to date has been generally favorable. Cereal production is expected to recover from the drought-reduced lows of the 2 previous years. Last year's drought was particularly severe and wiped out much of Kenya's southern cereal production and decimated livestock herds in areas where the drought affected rangelands. This year's improved weather, combined with a number of recent policy revisions including producer price increases, should raise cereal production as much as 17 percent above the 1980 level.

Kenya's food problems are too serious, however, to be solved by a single favorable harvest. The country had grown dependent on imports to offset declining per capita food production as early as the seventies and several years before the debilitating 1979 and 1980 droughts. The improvements in production likely in 1981 will not be large enough to reverse this situation. Moreover, Kenya's stocks are now near alltime lows, as a result of 2 years of drawdown; rebuilding will require large-scale imports. Satisfying these needs will require 532,000 tons of cereal imports in 1981/82 compared with imports of 415,000 tons in 1980/81.

Prospects for improvement in Kenya's weak financial situation are poor. The outlook for growth in export earnings is weak, given stagnating coffee prices. Debt service is growing and petroleum imports currently account for 56 percent of total export earnings. Kenya will have to arrange for concessional imports to cover nearly all of its 1981/82 needs.

Tanzania. The outlook for the cereal crops currently being planted in Tanzania is uncertain. Some improvement is expected, however, from last year's bleak performance; 1980's drought in the northeast cut corn production to the lowest level in 6 years and resulted in a tripling of corn imports from year-earlier levels. Gains in 1981 are likely to be less than needed to reverse the country's deteriorating food situation. Late and light rains delayed plantings this spring. Furthermore, little progress has been made in raising producer price levels or improving input and marketing services. Moreover, any production gains likely in 1981 will be largely overshadowed by the need to rebuild stocks and to raise lagging per capita consumption levels maintained in the midseventies. These stock and usage needs will keep Tanzania's import needs high in 1981--possibly as high as 545,000 tons compared with the 384,000 tons imported in 1980.

Tanzania cannot finance its growing food import needs. Reserves are down precipitously, petroleum imports account for over half of all export earnings, and the total trade deficit is nearing \$1 billion. As a result, Tanzania will have to look to donations or concessional financing for virtually all of its 1981 food import needs.

Mozambique. Prospects for little if any increase in Mozambique's cereal production in 1981 from depressed 1980 levels will make record food imports necessary to slow declines in per capita intake. The country's 1981 corn and sorghum crops were affected adversely by erratic and light rains at planting and floods early in the growing season. Cereal imports in 1981/82 would have to reach 475,000 tons, compared with 455,000 tons in 1980/81, to maintain even low 1977/78-1980/81 per capita intake levels. Intake levels in Mozambique fall so far below generally accepted minimum intake levels that increasing per capita intake to levels compatible with the FAO/WHO standards would require 845,000 tons of imports.

The country's weak transportation and marketing systems were disrupted by flooding in February--Mozambique's worst month for food supplies even under normal conditions--crippling food distribution efforts and forcing rationing programs in Maputo.

Mozambique's petroleum import bill amounts to more than three-fourths of the country's export earnings and will limit commercial food imports to about one-third of the 475,000 tons needed to maintain per capita intake levels. The rest must be sought on concessional terms or foregone.

Sudan. Some recovery in cereal production from unusually low 1980 levels is expected in Sudan in 1981. Despite this gain in production, however, dependence upon cereal imports should grow as a result of the the movement of refugees from neighboring Ethiopia, Uganda, and Chad. The imports needed to maintain native and refugee per capita food intake levels at even low 1977/78-1980/81 levels will exceed 470,000 tons in 1981/82. Imports will be most critical in August and September, before sorghum and millet harvests begin.

Even with a return to more normal weather, large gains in Sudan's food production seem unlikely in the near term due to the gradual deterioration of the country's irrigated Gezira area. This area—which accounts for one-third of Sudan's cereal output—has been strained by aging and by flood damage; despite government efforts to rejuvenate it, yields are deteriorating.

Sudan will be hard pressed to finance its 1981/82 food imports. Sudan's 1981 trade deficit is worsening monthly and is currently estimated to be 50 percent higher than reported in March. Petroleum imports account for 60 percent of total export earnings and the ratio of debt service relative to export earnings is highest in Africa. As a result, Sudan will be dependent on donations or concessional purchases for over three-quarters of its import needs.

Egypt. Egypt's dependence on food imports is expected to continue to increase in 1981. Consumer subsidies and growth in per capita income will push cereal demand more than 7 million tons higher than production. Egypt's large reserves, large worker remittances, and expanding petroleum export earnings should put the country in a strong position to purchase the bulk of its imports commercially. The balance—just over 1 million tons—should be largely covered by the U.S. P.L. 480 and commodity import programs.

From a longer term perspective, the situation in these countries should improve somewhat next year. In the absence of drought in Morocco and East Africa in 1982, these six countries could well register significant drops in food import requirements and food aid needs. Declines in Kenya, Tanzania, and Morocco could total several million tons.

Somalia, Uganda, Ghana, Mali Somalia. Early-season reports from Somalia suggest that the July/August cereal crop will be marginally larger. Given the weather patterns of the last several years, however, the crop will be vulnerable until harvest. Spring flooding of the Shabelle and Juba Rivers disrupted food distribution this spring, but caused little crop damage. The flood waters—which

temporarily isolated people from food supplies—are reported to have receded before causing critical delays in food and input delivery.

But even favorable production will leave Somalia dependent on imports of over 270,000 tons of cereal this year. Food production fell short of demand even in normal years during the midseventies, forcing Somalia to import large amounts of cereals on a regular basis. This growing dependence on imports increased sharply over the last 2 years with the influx of war refugees from Ethiopia and a succession of drought-related shortfalls in cereal production.

Somalia's financial position has also deteriorated over the last several years. Food import bills swelled after last year's drought, currency reserves are low, and debt service requirements provide additional pressure. Somalia will depend on aid or concessional sales for virtually all of its 1981/82 cereal imports. Furthermore, import needs are most critical in spring and early summer preceding the late-summer harvest.

<u>Uganda</u>. Beneficial rains were reported early in the growing season and could push Uganda's cereal harvest marginally above low 1979 and 1980 levels. More than this marginal improvement in production, however, will be needed to reverse the declines in per capita output experienced over the last 2 years due to drought, short supplies of key production inputs, and organized political and military opposition. The agricultural sector has yet to recover from neglect during Amin's rule, and is still

Table 7--Cereal Import and Aid Needs of Selected
African Countries

	: :	1981/82	Import	:	198	1/82	
Country	:1980/81:	Need	ls	:	Aid	Needs	
	:Imports:S	tatus Quo	:Nutriti	on:S	tatus Qu	o:Nut	rition
	: :	Based	: Based	:	Based	: Ba	ased
	:						
	:		1,000	Ton	<u>s</u>		
	:						
Egypt	: 6,801	7,182	4,4	70	1,082		0
Kenya	: 415	532	1,2	36	479	1	, 183
Morocco	: 1,917	3,559	2,7	16	1,964	1	,121
Mozambique	: 455	476	8	45	320		689
Sudan	: 380	432	3	75	357		300
Tanzania	: 384	545	1,2	32	526	1	,213
	:	,					

hampered by a poor marketing and transportation network as well as sporadic fighting and looting. These problems continue to be most acute in the northeast among the nomadic Karamajong, whose herds were decimated by the 1980 drought and cattle raiding.

Uganda's production of root crops has also failed to increase fast enough to cushion against declining per capita cereal production. Production of cassava, potatoes, bananas, and plantains has failed to keep pace with even the minimal net growth in population reported after taking into account the flight of refugees into neighboring Sudan and Zaire. The imports of food staples, on a cereal basis, needed to maintain even low 1977/78-1980/81 intake levels among the emigration-reduced population could reach 230,000 tons in 1981/82 compared with 130,000 tons in 1980/81. The cereal imports needed to raise 1981/82 per capita intake to the levels associated with FAO/WHO's recommended minimum are almost triple this level.

Uganda's financial outlook is also bleak. Industrial output lags; reserve levels continue to fall. Uganda's modest trade surplus may be gone by the end of 1982 as depressed coffee prices lower export earnings. Internal transportation problems also have slowed exports.

Virtually all of Uganda's 1981 food imports must be obtained on concessional terms or foregone. June is the critical period of need for food aid shipments, and also a favorable time for delivery since spring rains subside and road passability is generally good.

Ghana. The 1981 coarse grain crops currently being harvested in Ghana appear large enough to raise per capita cereal production well above 1980 levels. Drought and low yields in 1980 forced Ghana to purchase the largest corn and wheat imports on record in 1980/81. Improvements in the 1981 crop should ease the situation considerably, particularly in the isolated areas of northern Ghana hardest hit by the drought. Unfortunately, production of root crops—a major component of the Ghanaian diet—has not kept pace with population increases. As a result, raising per capita intake levels to even the average reported in the late seventies will require cereal imports of about last year's level of 310,000 tons.

Despite growing oil import bills and trade deficits, Ghana has been able to maintain a relatively stable financial position, owing to its large currency reserves and declining debt service. Even if low cocoa prices continue to dampen export earnings, Ghana should be able to purchase over half of its import needs commercially.

Mali. Although cereal production in Mali should increase in 1981 from low 1980 levels, weak producer incentives plus poor input delivery and marketing services will keep output from increasing fast enough to keep pace with population gains. Cereal imports of 200,000 tons will be needed in 1981/82 in order to raise per capita food intake to the levels reported in the late seventies. Unfortunately, Mali's limited currency reserves have already been drawn down sharply by its growing trade deficit; oil import bills currently account for two-thirds of the country's export earnings. As a result, almost all 1981/82 food imports will have to be made concessionally or foregone. Need will be greatest between July and October.

The longer term 1982/83 outlook for Somalia, Uganda, Ghana, and Mali is not favorable. Increased demand for food generated by population growth is likely to be greater than production gains and will increase these countries' dependence on cereal imports next year and quite likely, for several years thereafter. Given weak prospects for improvement in their financial positions, these countries will continue to be heavily dependent on food aid to meet their rising import needs. As a result, their 1982/83 food aid needs could increase 25 percent over the 741,000 tons estimated for 1981/82.

Angola, Guinea, Zaire, Cameroon, Sierra Leone

Angola. Field reports confirm that the corn crop now being harvested in Angola has been severely damaged by drought. Although information is limited, this year's cereal production is currently expected to fall to about 270,000 tons. A harvest of this size would result in 1981/82 per capita availabilities even lower than last year's depressed levels.

Further complicating Angola's food situation is a refugee problem and the transportation problems caused by continuing border conflicts and guerrilla fighting. Cereal import requirements will be about 70,000 tons higher than last year's imports of 310,000 tons. Large currency reserves supported by rising petroleum export earnings should allow Angola to cover well over half of its import requirements through commercial purchases.

Guinea. Guinea's rice and corn crops to be harvested this September are expected to recover somewhat from 1980's insect-reduced lows. But population gains and stagnating production of other staples will force Guinea to import slightly more cereals--largely rice--than over the last 2 years. Guinea's financial position is weak; reserves are low and the country's trade deficit is expanding rapidly. Debt service and arrearage payments currently account for over 40 percent of all export earnings. Nearly all of the estimated 192,000 tons of cereal imports needed to maintain status quo per

capita intake in 1981/82 would have to be purchased concessionally or foregone. A more ambitious measure of import requirements geared to raising intake to the levels associated with the FAO/WHO minimum requirement would be roughly 400,000 tons.

Zaire. Food import requirements are expected to remain high in Zaire during 1982/83. Strong population growth and slow growth in food production are likely to keep Zaire's dependence on food imports growing despite some relief in the country's refugee population from 1979 and 1980 levels. Zaire's per capita food production stagnated in the late seventies at roughly 80 percent of the levels reported a decade earlier, forcing Zaire to boost corn and wheat imports in order to maintain diets at even historically substandard levels.

Burdensome debt service and capital flow problems persist and tend to offset Zaire's favorable trade balance. About one-third of the country's 1981/82 import requirements will have to be met with concessional purchases or foregone.

Cameroon. Declining per capita production of cereals and root crops in Cameroon has forced the country to boost its food imports regularly over the last half-decade. The 1981 situation has been complicated by the influx of an estimated 100,000 refugees from Chad. As a result, 1981/82 cereal import requirements will total 225,000 tons. Cameroon customarily imports well over half of this amount commercially and is capable of doing so again in 1981 as a result of its strong currency reserve position and its growing petroleum earnings.

Sierra Leone. In Sierra Leone, forecast declines in per capita production of rice and cassava will push up cereal import requirements again in 1981. Imports of wheat and rice this year will have to match 1978's high of over 100,000 tons if per capita intake levels are to be maintained at the levels reported in the late seventies. Despite the debt rescheduling negotiated in 1980, reserves are expected to slip in 1981 as Sierra Leone's trade deficit worsens. Concessional assistance will be needed to help finance as much as one-half of this year's cereal import needs.

Food import requirements and food aid needs in Cameroon, Guinea, and Sierra Leone will remain roughly unchanged in 1982/83. Angola's import requirements and aid needs will drop significantly next year, assuming 1982 cereal output returns to normal. Zaire's difficulties with declining per capita root crop production are expected to continue in 1982/83 and push 1982/83's food aid needs up to possibly double this year's level.

Table 8--Cereal Import and Aid Needs of Selected African Countries

	_					
	:	:	1981	./82	: 198	31/82
Country	:19	80/81:	Import	Needs	: Aid	Needs
	:Im	ports:		:	:	:
	:	:	Status Quo	:Nutritio	n:Status Qu	o:Nutrition
	:	:	Based	: Based	: Based	: Based
	:					
	:			1,000	Tons	
	:					
Angola	:	310	383	427	183	227
Cameroon	:	120	227	350	72	195
Ghana	:	310	314	558	141	385
Guinea	:	165	192	395	161	362
Mali	:	60	207	535	191	519
Sierra Leone	e :	55	108	48	64	4
Somalia 1/	:	391	353	301	347	295
Uganda —	:	130	244	682	238	676
Zaire	:	190	281	844	100	663
	:					

^{1/} Does not include 446,000 tons import requirement for milk, a major noncereal staple food item in the Somalian diet.

Benin, Chad, Gambia, Cape Verde, Djibouti, Lesotho Benin. Near-trend grain harvests in August will allow Benin to limit cereal imports this year to 60,000 tons or about the amount imported last year. Root crop production gains continue to provide some limited cushion against cereal shortfalls but Benin will face serious difficulty financing even its reduced import requirement in 1981/82. Reserves have been drawn down over the last several quarters due to a steadily mounting trade deficit. Three-fifths of 1981/82's cereal imports will have to be purchased on concessional terms.

Chad. Fighting has temporarily subsided in Chad, but domestic conditions remain uncertain. June millet sowings were disrupted by limited localized fighting. Nevertheless, some increase in production is expected as farmers recover from the poor weather and civil disruptions of 1979 and 1980. Nearly all of this tonnage needed to maintain per capita intake levels will have to be in the form of food aid. Aid needs will be most acute beginning in August; deliveries will have to begin well in advance of this time to compensate for the country's weakened transportation networks to the north, the return of refugees from camps in Cameroon, and onset of rains in June.

Gambia. Although current cereal import requirements in Gambia are roughly the same as in 1980/81, Gambia's food aid needs

will be substantially larger. Reserves are low and the trade deficit is increasing. Oil imports now account for one-quarter of the country's total export earnings. Earnings have been held in check by two successive disastrous harvests of peanuts, the country's major exchange earner. Less than two-thirds of Gambia's cereal import requirements can be made commercially.

Cape Verde. Cape Verde's cereal production, reduced by a drought dating back to 1967, failed to recover again in 1981. As a result, the Islands will continue to be almost totally dependent on food imports. Estimated cereal requirements are 59,000 tons, over three-quarters of which must come from concessional purchases or be foregone.

<u>Djibouti</u>. Djibouti's almost total dependence on imports of food staples will decrease somewhat in 1981/82; recovery from a 2-year drought is being reflected in increased livestock production. However, the conflict in Ethiopia continues to weaken the country's financial position by disrupting the port activities that generate most of Djibouti's exchange earnings. The resultant drop in earnings means that Djibouti will be able to meet less than half of its cereal import needs via commercial purchases. That same conflict has also forced a number of refugees to flee to Djibouti and strain the country's very limited food distribution and relief facilities.

Lesotho. Favorable weather in January helped corn and sorghum crops in Lesotho bounce back from the drought-depressed lows in 1980. This recovery, combined with a near-normal wheat harvest this November, would limit the cereal imports needed to maintain per capita intake levels to an unusually low 125,000 tons, or one-third of domestic consumption. Last year, cereal imports accounted for roughly one-half of domestic consumption.

A growing merchandise trade deficit in 1981 could limit Lesotho's commercial purchasing power. But sizeable worker remittances will help the country purchase well over three-quarters of its cereal imports commercially. South Africa normally supplies the bulk of commercial shipments; the United States and the UN/FAO World Food Program provide most of the concessional trade.

With the exception of Lesotho, food aid needs for the countries discussed above are forecast to increase modestly in 1982/83. Continued uncertainty regarding Chad's capacity to boost production significantly in 1982, given the country's current political instability, suggests that its aid needs may grow at a slightly faster clip. Lesotho's agriculture is expected to be fully recovered from the 1980/81 drought by 1982, enabling Lesotho to meet virtually all of its domestic needs from domestic production.

Burundi, Comoros, Guinea-Bissau, Madagascar, Mauritius, Central African Republic, Mauritania Burundi. Strong rains in Burundi over much of last year's cereal growing season pushed 1981 production back up to the highs reported in the midseventies. Population increases will nevertheless leave Burundi with a modest food import need of about 30,000 tons. Burundi does not ordinarily import food, purchasing only small amounts of wheat. Financially it is poorly prepared to do so. Coffee generates virtually all of the country's export earnings. With world coffee prices low, imports outrun export earnings by 2.5 to 1; petroleum imports alone account for one-third of all export earnings. Burundi would need concessional assistance to cover nearly all of its 1981 cereal import needs.

Comoros. Comoros is dependent on imported rice to meet well over two-thirds of its food needs. With population increasing at the fastest rate in all of Africa, import requirements in 1981 will continue to be record large. Large foreign exchange reserves, however, will allow Comoros to purchase virtually all of its import needs commercially.

<u>Guinea-Bissau</u>. In Guinea-Bissau, moderate improvements in the weather compared with the drought conditions experienced a year ago should result in more favorable cereal crops later this year. As a result, import needs are forecast somewhat lower than those last year. No change is expected, however, in the country's virtually total dependence on aid to meet its food import needs.

Madagascar. The size of the main-season rice crop just harvested in Madagascar remains uncertain. Rains began late in the major growing areas and were particularly late and light in western and southern areas troubled by drought last year. If production drops, cereal imports needed in 1981 to maintain per capita intake levels would continue at or near the record highs noted in 1980.

Growing debt service obligations, combined with rapidly rising petroleum import bills accounting for half of the country's total export earnings, will limit Madagascar's commercial food imports to about three-quarters of the total imports needed to maintain per capita intake levels.

Mauritius. Mauritius is almost wholly dependent on imports of food supplies other than sugar. Population increases in 1981 will raise cereal import requirements to nearly 170,000 tons. Slightly more than this volume of cereals was imported in 1980/81 but the country's foreign exchange position has deteriorated during the intervening period sufficiently to weaken Mauritius' commercial import capacity. Foreign exchange earnings have slumped due to disappointing sugar export earnings.

Table 9--Cereal Import and Aid Needs of Selected African Countries

	:		:		·	:			
	:		:	981/8	32	:	19	81/	82
Country	: 1	980/8		ort l		:	Aid		
Ť		mport		:		-:		:	
	:		:Status	Quo:1	Nutritio	n:St	tatus Qu	o:N	utrition
	:		: Based	1:	Based	:	Based	:	Based
	:								
	:				1,000	Tons	3		
	:								
Benin	:	60	59		7		45		0
Burundi	:	16	33		20		31		18
Cape Verde	:	59	59	7	42		51		34
Central Africa	n:								
Republic	:	20	28	3	73		23		68
Chad	:	30	. 52	2	277		47		272
Comoros	:	25	26		25		4		3
Djibouti	:	61	5.5	5	NA		33		NA
Gambia	:	31	14	į.	16		4		6
Guinea-Bissau	:	82	3.5	5	42		25		32
Lesotho	:	185	124	· ·	124		19		19
Madagascar	:	265	235	5	180		46		0
Mauritania	:	79	102	2	186		24		108
Mauritius	:	170	168	3	133		29		0
	:	1 1							

NA = Not available.

Mauritius remains committed to an earlier agreement to sell the EC 500,000 tons of sugar at prices well below current high world levels. Nevertheless, Mauritius will be able to purchase three-quarters of its import requirements commercially.

Central African Republic. Per capita production of root crops—a key staple food item in the Central African Republic—has failed to keep pace with population growth, resulting in a widening food gap filled in recent years by wheat imports. A worsening trade balance and growing dependence on commercial borrowing cloud the picture for capacity to purchase cereal needs. It is likely that the country will require concessional help to purchase over three-quarters of its 1981 cereal import requirements.

Mauritania. The drought stress that occurred over several major producing areas in 1980 provides a basis of hope that Mauritania's cereal production will improve this year if summer weather continues to be normal. But unless unexpectedly

dramatic gains in millet production materialize, population growth will force Mauritania to boost cereal imports in 1981 if per capita intake levels are to be maintained.

Fortunately, Mauritania currently has sizeable foreign reserves and has been able to lighten its short-term debt service obligations through a recent debt rescheduling. The country should consequently need concessional financing for less than a quarter of its food import requirements. In recent years, food aid has comprised as much as 50 percent of total grain imports.

The same basic problems of growing import dependence and declining per capita availabilities should boost the eight countries' import requirements again in 1982/83. Food aid needs are also likely to increase, possibly by as much as 22 percent over 1981/82 levels, due to continued deterioration in their financial situations.

Ethiopia, Liberia, Zambia Ethiopia. Continued favorable weather through the summer and no escalation in internal fighting should result in a rebound in food production in Ethiopia from the low levels reported last year. The cereal harvest of 4.15 million tons likely under these favorable circumstances should prove enough to rebuild depleted stocks, maintain average per capita intake, and hold import requirements to 170,000 tons, compared with last year's imports of 333,000 tons of cereal, mainly wheat.

Ethiopia's 1981/82 food needs would be higher if an estimated 1.7 million Ethiopians were not currently living as refugees in Somalia, Sudan, and Djibouti. But this refugee situation not-withstanding, larger import needs could develop later this year if rains between June and August are late or light. Ethiopian diets are sadly lacking. Raising per capita food intake in Ethiopia up to the FAO minimum standards would require over 1.9 million tons of cereal imports.

Last year's drought damage, chronic transportation problems, and low prices are expected to depress coffee export earnings, Ethiopia's major foreign exchange earner. Reserves are very low; debt service payments will continue to require much of the country's limited exchange earnings. Ethiopia will consequently be able to purchase less than half of its 170,000-ton import need without concessional assistance.

Liberia. Gains in rice production in 1981 should keep pace with population growth in Liberia and hold cereal import requirements at roughly the level imported during the last 2 years. Growth in consumption of cassava has helped to hold rice and wheat imports to around 90,000 tons since 1978/79. Liberia is capable of financing most of its import needs but

low reserves and borrowing induced by capital flight will force the country to seek concessional sales for a quarter of the total.

Zambia. Zambia's weather to date this season has improved dramatically as nearer normal rainfall broke the protracted drought of the last 2 years. Corn production this season, helped by favorable weather and a boost in producer prices, is expected to be more than double the two previous crops. Reduction in refugee numbers, coupled with the limited stock rebuilding undertaken last year from imported supplies, should improve the food situation markedly in 1981. Maintenance of recent consumption levels will require 1981 cereal imports of about 145,000 tons, or only one-third of 1980 imports.

Copper export earnings have been reduced by low prices on the world market. Reserves are at a historic low and arrearages are mounting. Nevertheless, due to the reduced level of need, Zambia will be able to cover most of its import requirements with commercial purchases. Major concessional donors usually include the United States and EC.

Equatorial Guinea, Malawi, Niger Reports on prospects for the crops to be harvested later this summer and fall suggest that domestic production should be adequate to meet intake needs in Equatorial Guinea, Malawi, and Niger.

Senegal, Upper Volta

Senegal. With rice and millet harvests still 4 months away in Senegal, the recovery in cereal and peanut production currently being forecast is highly tentative. Even if better crops materialize, however, Senegal will continue to be dependent on rice imports to maintain per capita cereal intake levels. But improvement in peanut production and peanut exports would boost export earnings sufficiently for Senegal to purchase virtually all of its 1981 cereal import needs.

Upper Volta. Millet and sorghum plantings are currently underway in Upper Volta. Providing rains are well distributed through August, cereal production should improve somewhat from last year and keep import needs from rising from the 30,000-ton average of the last 4 years. Wheat will continue to be the principal imported grain. A worsening trade deficit—due largely to petroleum import charges—is likely to be offset by improvements in the country's currency reserve position. Upper Volta should be able to purchase commercially virtually all of its modest 1981 food import requirements. Unfortunately, Upper Volta shares with its Sahelian neighbors the problem of serious dietary deficiencies. Bringing per capita caloric intake up to the FAO minimum standard would require cereal imports of 336,000 tons.

Table 10--Cereal Import and Aid Needs of Selected African Countries

	:	:	1981/	:	1981	/92
0 - 1	. 1	000/01.				
Country		980/81 :	Import	Needs	Aid N	eeds
	:I:	mports:	:	:	:	
	:	:	Status Quo:	Nutrition:S	tatus Quo:N	utrition
	:	:	Based :	Based :	Based :	Based
	:					
	:			1,000 Tons		
	:				-	
Congo	:	75	77	81	12	16
Equatorial	:					
Guinea	:	3	3	NA	3	NA
Ethiopia	:	333	169	1,896	81	1,810
Liberia	:	95	88	76	19	-7
Malawi .	:	124	19	115	4	99
Niger	:	45	(23) 1/	(150) 1/	0	0
Rwanda	:	12	12	48	3	39
Senega1	:	306	335	541	19	225
Swaziland	:	39	19	(12) 1/	0	0
Togo	•	45	30	132	0	95
	•		29	336		
Upper Volta	•	15			4	311
Zambia	:	405	146	595	18	467

^{1/} Parentheses indicate no calculated import requirement or aid need. Countries involved may well import or request aid but to improve, rather than maintain, the status quo.

Congo, Rwanda, Swaziland, Togo

Financial resources should be more than adequate to cover food import requirements in Congo, Rwanda, Swaziland, and Togo. Gains in cereal production in 1982 for the countries in table 10 should keep import requirements and food aid needs in 1982/83 at roughly the same level as in 1981/82. Prospects for Upper Volta harvesting two good crops in succession are small by historical standards. Upper Volta's food aid needs are consequently likely to increase in 1982/83. Per capita root production in Congo could also lag, increasing that country's cereal import requirements and residual food aid needs in 1982/83 as well.

Lebanon, Yemen Arab Republic, Tunisia Lebanon. Unsettled political conditions in Lebanon complicate any assessment of its food situation. The exact sizes of wheat and barley crops now being harvested remain unknown, and would in any event cover less than 10 percent of total domestic usage Imports of wheat and corn customarily fill the bulk of the balance, but Lebanon's ability to import remains overshadowed

by uncertainties concerning the state of port facilities, availability and operation of transportation services, and financial conditions. Lebanon is currently capable of covering virtually all 1981 cereal import needs commercially. But currency reserves could be depleted by further military purchases, and debt servicing is scheduled to begin rising dramatically by the end of 1981, which could boost food aid needs.

Yemen Arab Republic. Even the strong gains in 1981 cereal production currently being forecast will leave the Yemen Arab Republic with a sizeable food import need due to population gains and long-standing dependence on outside sources for over a third of its cereal intake. Large reserves offset a worsening trade deficit and declining worker remittances; commercial purchases should cover virtually all cereal import requirements. Almost all of the 409,000 tons estimated to be needed will be wheat, the majority of which will likely originate in Australia.

Tunisia. Tunisia escaped much of the drought suffered in neighboring Morocco earlier this year. The cereal crop currently being harvested is estimated to be somewhat larger than a year ago. Consequently, relatively small amounts of cereal imports will be needed to maintain the per capita intake levels of the last several years. A strong financial position, boosted by oil and phosphate exports and a relatively modest debt burden, will allow Tunisia to purchase all its food needs commercially. From a longer term view, the situation in Tunisia should improve in 1982/83, but appears likely to deteriorate in the Yemen Arab Republic and Lebanon. For the 1982/83 season, a sizeable jump in debt servicing should curtail Lebanon's ability to purchase food and increase the country's dependence on food Continued declines in worker remittances for the Yemen Arab Republic are expected to cause a decline as well in its 1982 purchasing power, and an increase in estimated 1982 food aid needs. Tunisia, however, can be expected to purchase all of its cereal import requirements commercially in 1982.

Israel, Jordan, Yemen People's Democratic Republic

The good crops currently being forecast or the financial resources built up over the last few years in Israel, Jordan, and Yemen People's Democratic Republic puts the rest of the Middle East in a strong position to meet its food needs from domestic production or commercial imports.

Asia

With early-season indicators mixed but generally favorable, production of food staples in the low income countries of Asia appears likely to recover in 1981/82 from the low reported for the region as a whole in 1980/81. Improved crops are expected in countries, such as India, that reported poor 1980/81 harvests but somewhat smaller crops are expected in countries, such as Bangladesh, that reported excellent 1980/81 harvests. The

Table 11--Middle Eastern Cereal Import and Aid Needs

	:	:	1981,	/82	:	19	81/	82
	:	:_	Import	Needs	:	Aid	Nee	eds
Country	:1	980/81:S	tatus Quo:	Nutritio	n:S	tatus Quo	o:Ni	utrition
	:I	mports:	Based	Based	:	Based	:	Based
	:							
	:			1,000 T	ons			
	:	*						
Israel	:	504	462	262		0		0
Jordan	:	260	266	451		0		6
Lebanon	:	642	672	550		24		0
Syria	:	705	(208)	(284)	1/	0		0
Tunisia	:	750	481	225	_	0		0
Yemen, A.R.	:	502	384	259		0		0
Yemen, P.D.R.	:	120	116	245		0		76
	:							

^{1/} Parentheses indicate no calculated import requirement or aid need. Countries involved may well import or request aid but to improve, rather than maintain, the status quo.

return to roughly trend levels of production that seem likely at this time would result in a small increase in regional per capita production.

This trend production forecast hinges on normal weather later this summer and fall during the critical monsoon period. But even if this production recovery forecast proves accurate, the 10 low income countries analyzed in this report would have to import over 9.4 million tons of cereals to maintain 1981/82 per capita food intake levels at the average reported over the 1977/78-1980/81 period. This would represent an increase of 1.4 million tons over the volume of cereals imported in 1980/81 but would be well below the imports of the midseventies.

The largest changes in food production and import requirements from 1980/81 to 1981/82 are forecast for India and Indonesia. India will continue to be in a surplus position in rice in 1981/82, but faces a tight wheat and coarse grain situation. The stock drawdowns undertaken over the last 8 to 12 months in response to drought-related production losses have left India in a weak food security position. As a result, even with a sharp rebound to trend or near-trend levels of food production, India would require nearly 4 million tons of cereal imports in 1981/82 to maintain per capita intake levels.

The situation is virtually reversed in Indonesia; two consecutive bumper rice harvests combined with large imports have enabled the Government to raise per capita intake levels significantly while accumulating record stocks. Cereal imports of

less than 600,000 tons would be needed in 1981/82 to maintain both recent per capita intake levels and a healthy food security stock, compared with 3.2 million tons in 1980/81. Bangladesh should face a similar situation following its bumper 1980/81 harvests of rice and wheat. Conversely, if rice output in Vietnam, Laos, Kampuchea, and Sri Lanka continues to stagnate, as seems likely given the information available to date, more than 3.5 million tons of cereal imports would be needed in 1981/82 to maintain their per capita intake levels at even low 1977/78-1980/81 levels.

Longer term food production trends for the Asian low income countries analyzed in this report suggest that the situation should continue to improve in 1982/83. Cereal import requirements in 1982/83 are forecast at 9.0 million tons, with India and Bangladesh requiring smaller cereal imports and Pakistan exporting more cereals. Conversely, cereal imports are expected to rise in Afghanistan, Indonesia, and Vietnam in 1982/83. The 1981/82 and 1982/83 cereal import outlook for the low income Asian countries takes on a somewhat different perspective if a minimum nutritional norm is substituted for a status quo per capita intake level in determining food needs and import

Table 12--Asian Cereal Import and Aid Needs

	:	1981/82	2 :	1981	/82
Country	:1980/81:	Import Ne	eeds :	Aid N	eeds
	:Imports:Sta	tus Quo :Nu	itrition:Sta	tus Quo:	Nutrition
		Based :	Based :	Based :	Based
	•				
	•	1,	,000 Tons		
	•				
Afghanistan	: 300	(5) 1/	(240) 1/	0	0
Bangladesh	: 1,289	735	5,015	680	4,960
India	: (500) 1/	3,750	10,440	1,750	8,440
Indonesia		575	1,775	0	0
Kampuchea	: 285	95	435	95	435
Laos	: 75	110	125	80	95
Pakistan	: (905) 1/	(340) 1/	(35) 1/	0	0
Philippines		831	1,415	51	635
Sri Lanka	: 845	1,065	1,100	505	540
Vietnam	: 1,400	2,272	3,115	1,902	2,745
	:	,	,	,	•
Total 2/	: 8,056	9,433	23,420	5,063	7,850
	:		,	,	,

¹/ Parentheses indicate no calculated import requirement or aid need.

²/ Includes imports only; not adjusted for implied export availability.

requirements. The cereal imports needed to raise per capita intake in the low income Asian countries to a level consistent with FAO/WHO's recommended minimum food intake levels is 23.4 million tons for 1981/82 and 23.5 million tons for 1982/83. The differences between status quo and nutrition based measures of cereal import needs for India (nearly 7 million tons) and Bangladesh (more than 4 million tons) are the largest in Asia. Indonesia, Kampuchea, the Philippines, and Vietnam also show substantially larger cereal import needs using a nutritional norm in place of a status quo per capita intake level to measure import requirements. Only Afghanistan, because of the outflow of about 2 million refugees, shows per capita food intake above the FAO/WHO minimum level and, as a result, shows lower import needs using the nutritional norm.

The low income Asian countries that depend on vegetable oils for a significant portion of their diets are expected to gradually improve their oils positions during the next 2 years. Based on normal growth in production and status quo measures of intake, India's vegetable oil imports should decrease over the next 2 years, while Indonesian palm oil exports and Philippine coconut oil exports are likely to expand. The nutrition-based method shows similar results.

Offsetting much of this expected improvement in the food situation in 1981/82 and 1982/83 are questions concerning commercial food import capacities. Financial conditions are expected to deteriorate in most low income Asian countries during the next 2 years. Widening trade deficits, higher debt service payments, and stágnating international reserves are forecast for the majority of countries analyzed. Under the status quo calculation, the low income Asian countries would have to depend on some form of aid—either donation or concessional sale—to meet more than half of their cereal import needs in 1981/82, and somewhat less than half the following year. Food aid needs for the region are three to four times larger if a nutrition—based per capita intake level is substituted for a status quo level.

India, Bangladesh, Indonesia, Philippines India. Despite the significant increases in India's production of basic staples forecast for 1981/82 and 1982/83, assuming more normal weather, the country's food security position will remain relatively weak. In the face of the severe 1979 drought and its adverse impact on 1979/80 cereal harvests, India's large stocks of rice and wheat were drawn down sharply to minimize declines in 1980 per capita intake levels. Rice stocks were partially rebuilt late in 1980 and early in 1981 after the harvest of a record rice crop; wheat stocks have yet to be rebuilt.

India's import needs in 1981/82 will depend not only on government per capita intake goals, but on the desired pace of stock rebuilding as well. At a minimum, the Government must rebuild its cereal stocks in 1981/82 to meet the needs of the public distribution system; but stock buildup is also critical to protect against the possibility of another drought. The stock rebuilding provided for in this report allows for a gradual building of rice and wheat stocks to the Government target buffer level of 15 million tons by the end of 1983/84. To achieve these stock rebuilding goals while maintaining per capita intake at the average 1977/78-1980/81 level would require imports of nearly 3.8 million tons of cereals in 1981/82 and 3.1 million tons in 1982/83. To achieve these stock-rebuilding goals while raising India's per capita intake to the FAO/WHO recommended nutritional minimum would require roughly three times more imports.

Pulses and vegetable oils are also basic staples in the Indian diet. A return to trend production of pulses would put India in a position to export while maintaining per capita intake at 1977/78-1980/81 levels. Use of this 4-year average in estimating usage and trade volume is misleading, however, because of the extremely low availabilities reported in 1980/81. Nutrition-based estimates, better reflecting the importance of pulses in the Indian diet and their chronic shortage, suggest imports of 1.7 million tons in 1981/82 and 1.5 million tons in 1982/83.

Estimates of the Indian vegetable oil imports needed to maintain intake in 1981/82 and 1982/83 are quite high due to the large gains in per capita consumption made during the late seventies, as foreign exchange expenditures for food were shifted from cereal to oil purchases. Imports of about 1.2 million tons of edible oils in 1981/82 and 1.1 million tons in 1982/83 would be needed to maintain status quo intake levels.

India's ability to import food commercially in 1981/82 and 1982/83 will be seriously limited by a worsening trade deficit and growing dependence on international aid to shore up its foreign exchange position. Indian food imports (mostly vegetable oils) fell to \$1.3 billion during 1978-1980, while food exports grew to average over \$2 billion. Commercial food imports of more than the \$1.3 to \$1.6 billion forecast in this report could jeopardize the farm sector's positive trade balance and worsen what is expected to be a tight foreign exchange situation. Commercial imports of \$1.3 billion would leave \$410 million (1.7 millions tons of cereals and pulses and 110,000 tons of vegetable oils) of the total imports needed to maintain per capita intake to be imported concessionally in 1981/82.

Bangladesh. Given the unusually favorable growing conditions experienced in most of the country in 1980/81, food production in Bangladesh during 1981/82 is expected to decline marginally. Trend increases in yield, coupled with expanded wheat area in 1982/83, however, would push production to 1980/81 levels or above. Given the relatively large stocks of cereals accumulated from the 1979 and 1980 harvests, Bangladesh would need to import less than 750,000 tons in 1981/82 to maintain per capita intake levels and to meet, by historical standards, the country's stock needs. Stock reductions, however, run counter to Bangladesh's stated policy of building appreciably larger stocks to enhance food security. Given this stock policy, cereal imports in 1981/82 will quite likely exceed 1 million tons. Given the low per capita cereal intake levels relative to basic nutritional needs common in Bangladesh, cereal imports of 5 million tons would be needed in 1981/82 to raise food intake to the levels associated with the FAO/WHO recommended intake minimum.

Bangladesh's ability to import food commercially is, and will continue to be, very limited; international reserves will remain low in 1981/82 and 1982/83 and the country's trade deficit is likely to widen over the next 2 years. The country will depend on aid for more than 90 percent of the imports needed to maintain the status quo, and all of the added imports needed to support a more ambitious food security or dietary improvement program.

Indonesia. The huge 1980 rice harvest in Indonesia increased 1980/81 carryout rice stocks over 1.5 million tons to a record high of 3.3 million tons. As a result, although the 1981 rice crop may not be as large as the 1980 crop, rice imports needed in 1981/82 to sustain per capita intake and meet food security stock needs are likely to be substantially reduced from the level of recent years. Indonesia will remain an exporter of cassava and vegetable oils in 1981/82 and 1982/83, but more of these products will have to be used for domestic consumption. Wheat is not produced in the country and import demand will continue in the 1.2 to 1.3 million-ton range.

As a major oil exporter, Indonesia has benefited from strong increases in oil revenues; the country's 1981 and 1982 export revenues are likely to be more than all of the other low income Asian countries combined. Indonesia's reserves of \$7 billion, plus prospects for continued gains in earnings, suggest that the country will be in a position to purchase the limited supplies of rice and wheat needed on the world market to maintain per capita intake or even the substantially larger supplies needed to raise intake to the FAO/WHO recommended minimum.

Philippines. Food production in the Philippines is expected to continue to climb in 1981/82; the trend for the last two decades suggests gains in rice production for the 9th consecutive year. Rice exports of more than 400,000 tons are projected for each of the next 2 years. But while success in expanding rice output has narrowed the Philippines' overall deficit in food grain, wheat and corn imports continue to rise. Per capita food output actually lags somewhat below the levels reported during the midseventies. Imports of 1.2 million tons of wheat and corn will be required during 1981/82 to maintain per capita consumption at 1977-1980 levels. Imports of about 1.5 million tons of cereals would be needed to push per capita intake levels to the level associated with the FAO/WHO recommended minimum.

The Philippines' chronic trade deficit is expected to continue over the next 2 years. Sugar export prices are likely to rise, but gains in coconut oil export volume may be offset by reduced prices. International reserves should strengthen through 1981, but decline during 1982. The Philippines' financial position is such, however, that 1981/82 and 1982/83 food purchases can be made on a commercial basis.

Afghanistan, Pakistan Afghanistan. The improved wheat harvest projected for 1981/82 should make Afghanistan virtually self-sufficient in food during the coming year. Moreover, the departure of some 2 million Afghanis to Pakistan has resulted in a sharp increase in per capita availabilities. The country's international reserve situation will gradually worsen through 1982, but food imports for the next 2 years are not expected to increase and can be made on a commercial basis.

Pakistan. Pakistan is expected to harvest its third consecutive record cereal harvest in 1981. However, the country's food situation has not improved in line with these production gains; the influx of an estimated 2 million Afghani refugees dependent on government cereal rations has prevented Pakistan from becoming a large grain exporter. Should the refugee problem ease, Pakistan could be in a position to export 1 million tons of wheat and rice by 1982. Pakistan's vegetable oil imports are not expected to increase significantly over the next 2 years and, as a result, the country should remain a net food exporter.

Despite strong export prices for cotton and rice, Pakistan's overall trade deficit will continue to widen through 1982. But the country's commercial import capacity should change little, and should be adequate to cover the cereal and oil imports associated with maintaining status quo intake levels. The average Pakistani diet is close to the FAO/WHO recommended minimum

requirement; as a result, a measure of import needs geared to meeting this requirement generates roughly the same food import and aid need estimates.

Sri Lanka, Kampuchea, Laos, Vietnam Sri Lanka. Food production in Sri Lanka increased 3 percent in 1980, enabling the Government to reduce cereal imports for the third consecutive year. Prospects for continuing this trend in 1981 and 1982, however, are not favorable. An early 1981 drought, coupled with serious insect damage to rice, points toward lower cereal production this year and cereal imports of up to 1.1 million tons. A similar import requirement is needed under the nutrition-based estimate. Sri Lanka's international reserves are projected to continue to erode as the country's trade deficit grows. Food import needs will likely rise faster than the country's commercial import capacity over both years and leave as much as half of the cereal import requirement to be covered by donations or concessional sales.

Kampuchea. Information on Kampuchea is very limited. The country's cereal production stagnated in the mid and late seventies and there is little indication that the poor weather or civil unrest underlying past problems will change in 1981. Rice output was reported up somewhat in 1980 but still less than the record levels of the early seventies. Maintaining status quo per capita intake in 1981 and 1982 would require only limited imports. This is due, however, to the extremely low intake levels that have prevailed in Kampuchea since the midseventies. Cereal imports of 430,000 tons would be needed to raise Kampuchea's per capita intake to the levels associated with the FAO/WHO recommended nutritional minimum.

Laos. Information on Laos is also limited. Rice accounts for 80 percent of the diet and production has shown little change in recent years. Rice imports of slightly more than 100,000 tons are required under both the status quo and nutrition-based method. Imports will continue to be primarily concessional, since international reserves and export earnings remain precariously low.

<u>Vietnam</u>. Data on Vietnam are sketchy, but all reports suggest a deteriorating food situation. Rice production has been stagnating in recent years due, in part, to a series of insect and weather problems. Assuming even a partial recovery in rice output, cereal import needs could reach 2.3 million tons in 1981/82, and 2.5 million tons in 1982/83. Declining foreign exchange reserves and a widening trade deficit will keep the country's commercial food import capacity at about 400,000 tons and leave the country dependent on 1.9 to 2.1 million tons of aid if per capita intake levels are to be maintained at 1977/78-1980/81 levels.

Latin America

The Latin American food situation improved significantly in 1980/81. Food production for the region, as a whole, increased to an alltime high well above trend and more than 4 percent above the 1979/80 level. The 11 lowest income countries of Latin America-Bolivia, Colombia, the Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Nicaragua, and Peru-reported a 3.6-percent production increase.

Production of food staples in these low income countries increased appreciably more slowly than total agricultural production. Much of this past year's increase was concentrated in cash and export crops. As a result, the food situation in Peru in South America and El Salvador, Guatemala, and Haiti in Central America and the Caribbean will continue tight and result in record high food import needs.

The financial picture varies considerably from country to country, although nowhere is it bright. Ten of the 11 countries will require large shipments of food aid to meet their 1980/81 import needs. Aid as a percentage of the imports required to maintain per capita levels is greatest for Nicaragua, Haiti, and the Dominican Republic. The largest absolute quantities of aid are needed by Peru, the Dominican Republic, and Haiti.

The situation in the low income countries of the region should improve in 1981/82. Food production prospects this early in the season are generally favorable although the circumstances vary in each country. For the most part, production of food staples should keep pace with or exceed population growth in

Import Needs Understated. The estimates used in this section understate Latin American import requirements and aid needs. First, as noted in the methodology appendix, import requirements and food aid needs are calculated providing for little or no growth in the use of staples for livestock The Latin American countries have expanded feeding of cereals sharply over the last several years and are likely to continue to do so in 1981/82 and 1982/83. result, a no growth in feeding assumption tends to understate demand for staples. Moreover, a 4-year per capita intake average is used in the report to determine status quo food needs. Per capita intake in Latin America in the second half of the base period increased significantly, suggesting that the average used may also understate demand. Adjusting for these two factors would raise 1981/82 cereal import needs from 3.6 million tons to 4.2 million tons and aid needs from 457,000 tons to 727,000 tons.

areas other than the Caribbean. Food import needs are not likely to decline significantly from 1980/81 levels, however, and any improvements in the region's financial situation will also be small. As a result, food aid needs in 1981/82 are likely to stay near the 1980/81 level of 400,000 to 500,000 tons.

Food production in 1982/83, assuming trend levels of output, would keep pace with population growth and hold food import needs to about 1981/82 levels. A gradual improvement in the financial situation in much of the region with a return to more stable government could reduce the proportion of imports needed in some form of aid and possibly even the absolute levels of food aid needed in 1982/83.

More detailed country comments follow.

Bolivia, Columbia, Dominican Republic Bolivia. Bolivian food production declined 1 percent in 1980/81 as a result of of adverse weather and social and political unrest. Production losses were relatively light in staple crops such as cereals and roots and tubers. But with population growing almost 3 percent per year, even 1980's fractional decline in output resulted in a significant drop in per capita output and increased import demand. Imports of

Table 13--Latin America Cereal Import and Aid Needs

	:		: 1981	/82 :	1981/	82
Country	:	1980/81	: Import	Needs :	Aid Ne	eeds
	:	Imports	:Status Quo:	Nutrition:St	atus Quo:N	Nutrition
	:		: Based :	Based :	Based :	Based
	:					
	:			1,000 Tons		
	:					
Bolivia	:	257	255	372	25	142
Colombia	:	462	435	101	0	0
Dominican	:					
Republic	:	345	275	478	25	228
Ecuador	:	307	300	385	45	130
El Salvador	::	102	160	238	75	153
Guatemala	:	228	172	(2) 1	/ 47	0
Haiti	:	184	280	510	210	440
Honduras	:	111	125	232	50	157
Jamaica	:	429	425	376	0	0
Nicaragua	:	133	20	(3) 1	/ 0	0
Peru	:	1,548	1,190	1,348	0	118
	:		•			

^{1/} Parentheses indicate no calculated import requirement or aid need.

cereals, primarily wheat, in 1980/81 will have to exceed 250,000 tons to offset the production decline.

Unfortunately, Bolivia's financial position also weakened in 1980 and so far in 1981. Reserves are well below the levels needed to maintain the country's traditional reserve/import ratio. Moreover, Bolivia's debt service obligations are growing rapidly enough to account for roughly a third of all export earnings. Labor and political unrest in 1981 are likely to weaken the situation further by disrupting Bolivia's key tin and oil sectors. As a result, Bolivia will need to import 10 to 20 percent of its 1980/81 food import needs concessionally.

The outlook for 1981/82 is somewhat brighter; a slight increase in production is likely with more normal weather. The country's deteriorating financial situation suggests, however, that a substantially larger portion of a possibly smaller import total will have to be purchased concessionally in 1982 or foregone. Prospects for 1982/83 follow the pattern forecast for 1981/82.

Columbia. Colombia reported modest gains in the production of most staples in 1980/81. Revenues from coffee and illegal narcotics exports, plus international loans, increased foreign exchange holdings at the start of 1981 to a record high. Despite a growing trade deficit due to growing imports of capital and consumer goods and a rising oil import bill, Colombia should be able to purchase all its food import needs commercially in 1981.

Production of staples in 1981/82 is expected to decline slightly due to unfavorable weather conditions at the start of the planting season. Colombia is expected, however, to be in a strong position to purchase all of its 1981/82 food imports commercially. Production of staples should recover to about trend levels in 1982/83; Colombia once again should be in a good position to import all its food needs commercially.

Dominican Republic. The Dominican Republic reported a small overall gain in food production in 1980/81. Production of rice increased 10 percent in response to government policy adjustments; production of roots and tubers also rose slightly. Food import needs will continue to be large but below recent records. The Dominican Republic's capacity to import food commercially has declined, however, due to a poor sugar crop that has dampened export earnings. The Dominican Republic will be dependent on concessional trade for almost half of its 1981 food imports.

Should forecast increases in food production materialize in 1981/82, the Dominican Republic's food import needs should decline further and, given some recovery in export earnings, food aid needs will drop off appreciably as well. The improved food production situation and strengthened financial situation expected as sugar exports rebound should lower 1982/83 import and aid needs even further.

Ecuador, El Salvador, Guatemala Ecuador. Ecuador's production of food increased sharply in 1980 as output of staples other than milk more than offset the sharp decline in milk production caused by prolonged drought. Ecuador also reported a trade surplus, based on higher export earnings, that will keep the country's need for aid to meet its reduced 1981 import requirements small.

The outlook for food production in Ecuador for 1981/82 is mixed. Accumulation of rice stocks by the Government, in case of further border disputes with Peru, may depress prices and weaken producer incentives. High government-set prices for corn, however, should encourage expanded input usage and raise yields. The anticipated improvement in corn production should offset the rice decline. Milk production could increase significantly, as a result of improved pasture conditions. Ecuador's financial situation will weaken during 1981/82—the result of lower prices and reduced coffee, cocoa, and oil export volume. As a result, the Government will probably seek to purchase more of its growing food imports concessionally.

Projected production increases and an improving financial position in 1982/83, suggest that Ecuador's food aid needs should decline.

El Salvador. The combination of poor 1980 harvests and a deteriorating financial situation increased El Salvador's dependence on food aid in late 1980 and early 1981. Harvests were particularly poor in cotton and coffee. As a result, coffee and cotton export earnings were off and, when combined with the capital flight sparked by civil unrest, lead to a serious weakening of the country's financial position. The country will be dependent on aid for roughly a third of its 1981 food import needs.

Production of major cereals and sugar is expected to increase in 1981/82, politics and weather permitting. However, the further deterioration in El Salvador's financial situation that appears inevitable will make the country even more dependent on food aid than in 1980/81. Continued improvements in food production should lower import needs in 1982/83 and offset continued financial problems, keeping aid needs at about 75,000 tons.

Guatemala. Gains in output in Guatemala in 1980/81 more than offset population growth. Corn and sugar production were up, due, at least in part, to higher support and export prices. The country's weakening financial position, however, makes it dependent on aid for two-fifths of its estimated 200,000 to 225,000-ton 1981 food import needs.

Overall food production is expected to fall in 1981/82 because of the lower corn production generated by a decrease in government support prices. The country will continue to be in a weak financial position and will remain dependent on aid for much of its food imports. The outlook for 1982/83 is quite similar; increases in production are expected to about keep pace with population growth but the country's weak financial position will keep it dependent on aid for a larger share of its smaller import requirement.

Haiti, Honduras, Jamaica Haiti. The agricultural and financial situation in Haiti continued to deterioriate in 1980/81. A food production decline of 1 to 2 percent, combined with population growth of 2.5 percent, resulted in a 4 percent reduction in per capita production. Most of the decrease was due to Hurricane Allen and a cyclical downturn in coffee production; staple production fared somewhat better than cash and export crops. But imports of roughly 185,000 tons of cereals in 1981 will be needed if per capita staple intake levels are to be maintained. Haiti is in a position to import less than half of this amount commercially.

Haiti's financial position weakened significantly in 1980 and early in 1981 as export earnings from trade in tropical products dropped off due to damage from Hurricane Allen. Rising petroleum import bills are likely to keep competition for scarce foreign exchange strong. Even given a return to more normal food production levels in 1981/82, over half of Haiti's 1982 food imports will have to be purchased concessionally or foregone.

Prospects for 1982/83 are bleak; growth in food production is expected to lag behind population growth and the country's financial situation is not expected to improve sufficiently to support expanded commercial purchases.

Honduras. Production of food staples in Honduras in 1980/81 increased fractionally from the low reported in 1979/80 but lagged well below the record reported 1978/79 performance. Tight farm credit early in the season and flood damage and post-harvest losses later in the year were responsible for a substantially smaller crop than expected.

Capital outflows, a growing trade deficit, and a weakening reserve position have combined over the last 12 to 18 months to reduce the country's commercial import capacity substantially. As much as half of the country's forecast 1981 food import needs will have to be purchased concessionally or foregone.

Political unrest in Honduras and neighboring Central American countries was a critical factor in the deteriorating economic scenario, discouraging investment and encouraging considerable capital flight from the country.

The production outlook for 1981/82 and 1982/83 is more favorable, assuming more normal weather and improved control over post-harvest losses. If these conditions hold, growth in production will about keep pace with the country's population growth. Although continuation of 1980/81 economic problems suggest a bleak economic outlook in 1981/82 and 1982/83, somewhat higher export earnings should increase the country's commercial food import capacity fractionally. Food aid needs in 1981/82 would be about 40 percent of the country's total import requirement, but should drop to less than 20 percent in 1982/83.

Jamaica. Jamaica's food production declined in 1980/81 due to the damage done by Hurricane Allen, but more importantly, due to short supplies of key inputs such as fertilizers and pesticides. With so little of the island's food supplies produced domestically, however, Jamaica's financial situation is a more important indicator of aid needs. Over the past year, a dramatic increase in capital inflows and direct investment, combined with an improving trade balance, have reversed the deteriorating financial situation of the last several years. Jamaica's food import needs should range from 420,000 to 450,000 tons over the 2 years and the country's commercial import capacity should be large enough to support most if not all of this volume.

Nicaragua, Peru

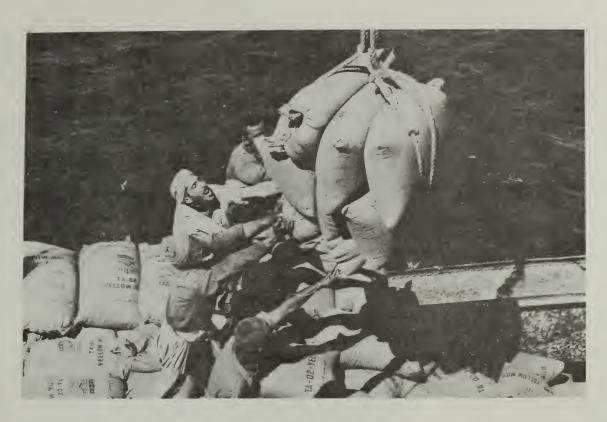
Nicaragua. Food production in Nicaragua increased in 1980/81 due in large part to greater political stability. The country's financial and overall economic conditions are improving but there is still uncertainty within the country that will slow recovery. Imports of major cereals were up sharply as stocks were rebuilt and feed usage returned to normal levels.

Smaller imports will be required in 1981/82 and 1982/83 due to continued improvements in food production. Some improvement is also likely in the country's financial situation because of recent capital inflows. As a result, food import needs should be down sharply and the proportion of imports covered by aid will decrease.

Peru. The third year of drought and longer standing problems of low investment in agriculture dating from the early seventies combined to reduce Peru's food production in 1980/81 to the lowest level reported since 1959 and, on a per capita basis, to the lowest level on record. Cereal and sugar production were each off a quarter and production of roots and tubers decreased 5 percent. With low production, high population growth, some moderate improvement in consumer purchasing power, and an increase in demand from the livestock feed industry, a massive 1.5 million tons of cereal imports will be needed in 1981. While Peru's financial position in 1980 continued to recover from the near-bankruptcy condition of the late seventies, around 15 percent of food imports were imported concessionally.

Prospects for 1981/82 and 1982/83 suggest at least a temporary reversal of recent food production declines if weather proves more normal. Heavy rains early in 1981 refilled empty reservoirs and should provide much of the water needed for irrigation and the soil moisture needed in unirrigated areas. The government is also stressing agricultural development through new extension programs and a gradual return of most agricultural production and marketing responsibilities to the private sector. These actions are expected to have a small positive impact on production 1982/83.

The country's financial situation through 1982/83 will remain fragile. Despite some growth in exports, imports of capital and consumer goods will remain high enough to keep the trade balance low or in deficit. Debt service will continue to account for more than 30 percent of export earnings and uncontrolled domestic spending could pressure the Government to use the limited supplies of foreign exchange left over to pay domestic bills.



BALANCING FOOD AID NEEDS AND AVAILABILITIES

The information available from major donor countries on 1981/82 aid budgets suggests that food aid availabilities will fall short of the aid needs described in this report.

The food aid needed to maintain the per capita food status quo in the low income countries is forecast at 12 million tons of cereals, 150,000 tons of vegetable oils, and 410,000 tons of milk, valued at \$3.2 billion. The food aid needed to increase per capita intake to the levels associated with the FAO/WHO recommended minimum is estimated at 28 million tons of cereals, 100,000 tons of vegetable oils, and 770,000 tons of milk, valued at more than \$8.6 billion. Moreover, should several of the low income countries experience production shortfalls comparable to those experienced in 1980 over large areas of Africa or undergo any further deterioration in their financial positions, their status quo needs could increase to over \$4 billion and nutrition-based needs could increase to more than \$10 billion.

Given the donor countries' past aid distribution patterns, that provided for donations to higher income countries not treated in this report, the donor country aid total shown in table 14 would have to exceed \$3.4 billion to ensure that the low income countries' status quo needs were met. Information to date from the donor countries suggests that about \$2.6 billion of food aid will be donated in 1981/82.

Food Aid Availabilities

Although detailed information on budgets is not available for most of the major donor countries, it appears likely that donations will increase from \$2.5\$ billion in 1980/81 to \$2.6\$ billion in 1981/82.

This forecast increase comes after several years of declining aid shipments due to both slowed growth in aid budgets and the rapidly rising unit cost of the commodities moving as aid. The decrease has been most pronounced in the United States where commercial demand for foodstuffs has been strong and aid budget increases weak. The other donors did not increase their allocations fast enough to offset the decline in U.S. donations. The increased production of food and feed grains, virtually worldwide, currently being forecast for 1981/82 would stabilize or lower prices. This price decrease, combined with small increases in aid budgets, could raise the volume of food aid fractionally (table 14).

United States

Food aid from the United States--which usually accounts for one-half to two-thirds of the world total--is forecast to increase in 1981/82. Given the continued strong commercial demand for cereals at home and abroad expected in 1981/82 and tightening budget limits, however, the increase will be small. The total volume donated will fall well below the volume reported as recently as 1979/80.

A small increase in aid donations is also forecast for Japan. The increase will be limited, at least in part, by criticism from the other major rice exporters of what is seen as Japanese dumping at the expense of their commercial sales.

Australia

With supplies of cereals short, Australia's food aid donations were limited through mid-1981. Australian production of wheat, the main commodity donated, was off a third in 1980/81 due to severe drought. Exports were off only a quarter due to the drawdown of the large stocks built up following the record 1979 harvest. Aid shipments, however, lagged well below levels planned earlier in the year. More normal harvests in 1981 would allow Australia to expand aid in line with longer term plans of 350,000 to 400,000 tons.

Canada

Canada's 1980/81 food aid donations are likely to exceed 600,000 tons of cereals and other products. Shipments of wheat have not declined in spite of strong commercial demand, disappointing 1980 harvests, and declining stocks. Canada's longer term food aid committments suggest 600,000 to 625,000 tons will be donated during 1981/82 and 1982/83. Food aid contributions will continue to include vegetable oils, dry milk, canned fish, cheese and egg powder, as well as wheat and wheat products.

Table 14--Volume of Food Aid Contributions, Principal Commodities

Commodity and Donor	: 1973/74	: 1973/74 : 1974/75	: 1975/76	: 1976/77	: 1977/78 :	: 1978/79 :	: 1979/80	Estimated Allocation	Estimated Allocations 1/
	•	••	••	••	••	••	••	1980/81	: 1981/82 2/
	••								
	••••			100	1,000 Metric Tons	18			
Cereals	: 6,041	8,392	7,116	10,900	3/ 11,000	3/ 10,896	3/ 9,185	9,185	9,400
Argentina	: 10	20	0	22	32	30	38	48	50
Australia	: 222	330	268	230	252	312	304	350	400
Canada	: 486	464	1,034	. 1,176	884	735	669	009	009
European Community 4/	: 1,208	1,413	928	1,131	1,488	1,240	1,194	1,650	1,650
Finland	: 17	24	25	33	47	6	14	20	20
Japan	: 350	182	33	94	135	352	889	292	625
Norway	0	0	10	10	10	10	37	40	707
Sweden	: 65	316	47	122	104	104	86	06	06
Switzerland	: 33	29	35	35	33	32	32	27	30
United States	: 3,588	4,731	4,637	7,940	7,663	7,552	5,649	5,310	5,610
Other	: 62	753	199	157	353	520	432	350	. 335
	••								
Vegetable Oils	: 139	98	320	239	419	237	NA	NA	NA
United States	: 119	71	217	176	366	157	230	230	197
Other	: 20	15	103	63	53	. 80	NA	NA	NA
Milk and Products	. 87	. 128	172	204	249	251	NA	NA	NA
	••	ì	· ·	i	į	į		i c	i v
United States Other		46 82	26 146	55 149	182	187	28 N	85 NA	0 S
	· ··	1	2	1					1
NA = Not Amailable									

NA = Not Available.

1/4 Allocations are for the budgetary period of each country. 1/4 Preliminary, unofficial estimates. 1/4 Preliminary, unofficial estimates. 1/4 Preliminary, unofficial estimates. 1/4 Preliminary, unofficial estimates. 1/4 Preliminary, unofficial estimates are unofficial solutions and the USSR as emergency and to several Asian countries according to unofficial reports, including 200,000 tons each in 1977/78 and 1979/80 and 400,000 tons in 1978/79. 1/4 Aid from European Community and its member countries.

Sources: FAO, U.S. Agency for International Development, and USDA.

European Community

The European Community (EC) is committed under the Food Aid Convention to donate a minimum of 1.3 million tons of cereal aid in 1980/81. The EC-funded portion of this total will exceed 720,000 tons. Donations in 1980/81 fell short of this FAC commitment for cereals but large milk powder (150,000 tons) and butter oil (450,000 tons) donations raised the total for all products to over 1.5 million tons.

EC food aid donations are expected to increase substantially in 1981/82. Cereal aid could total 1.65 million tons, with 928,000 tons financed by the EC and the remainder financed by member countries. The effort to expand 1981/82 donations is motivated both by the large supplies of cereals available for donation following the bumper 1980 cereal harvest and by the large volume of aid requested.

The EC food aid donations of products other than cereals have traditionally been decided on at annual reviews of the agricultural situation by the Council of Ministers held later in the year.

The EC's food aid program for 1982/83 is not likely to be substantially larger than in 1981/82. Its form, however, may change somewhat. The Commission is currently planning to integrate aid decisions into the EC's long-term development policy. The range of products donated could be extended to rice, vegetable oil, sugar, beans, meat, and fish. 1983, the program is to be better aligned to the nutritional needs of developing countries. Several other countries regularly donate food to low income countries. While their total volume is small, the size of their donations relative to their budgets or to their agricultural production is often greater than for the larger donors. Among these countries are Denmark, Finland, Norway, Sweden, the Netherlands, and Switzer-Their 1980/81 donations totaled in excess of 575,000 tons, made up primarily of cereals. Their 1981/82 donations are expected to total 550,000 tons as their aid budgets are expected to remain constant or decline fractionally.

Allocating Available Food Aid

The wide discrepancy between food aid needs using even the limited status quo measure and food aid availabilities will force aid decisionmakers to develop an aid allocation method. At least two approaches can be used. Food aid needs can simply be scaled back across countries to match aid availabilities. A system for ranking the low income countries can also be developed on the basis of the severity of per capita aid needs. Tables 15 and 16 show the results of the two approaches.

It should be noted that the allocations and rankings presented here are examples and should not be construed as official

Table 15--Scaled-Down Food Aid Needs, 1981/82 $\frac{1}{2}$

		ıs Quo id Needs	: Nutri	
D /a	:	:	: :	
Region/Country	:	:Scaled-		Scaled
	: Total	: Down	: Total :	Dowr
	<u>:</u>	·	<u>:</u>	
	:	Milli	ion Dollars	
Africa and Middle East	:			
Angola	• • 47	38	59	18
Benin	: 11	9	0 <u>3</u> /	0
Burundi	: 21	17	13	4
Cameroon	: 21	17	58	18
Cape Verde	: 9	7	6	2
Central African Rep.	: 11	9	29	9
Chad	: 14	11	81	25
Comoros	: 2	2	1 .	<u>4</u> /
Congo	: 4	3	5	_2
Djibouti	: 13	11	N.A.	N.A.
Egypt	: 238	193	0 3/	0
Equatorial Guinea	: 2	2	N.A.	N.A.
Ethiopia	: 18	15	393	120
Gambia	: 1	1	2	1
Ghana	: 56	45	154	47
Guinea	: 45	37	101	31
Guinea-Bissau	: 3	2	5	2
Israel	: 0 2	/ 0	0 3/	0
Jordan	$0 \overline{2}$	/ 0	2 —	1
Kenya	: 124	101	306	94
Lebanon	: 5	4	0 3/	0
Lesotho	: 4	3	4 —	1
Liberia	: 9	7	3	1
Madagascar	: 17	14	0 3/	0
Malawi	: 1	1	25	8
Mali	: 129	105	352	108
Mauritania	: 5	4	24	7
Mauritius	: 9	7	0 3/	0
Morocco	: 326	264	186	57
Mozambique	: 121	98	260	79
Niger	: 0 2	/ 0	0 3/	0
Rwanda	: 3	2	36	11
Senegal Senegal	: 5	4	66	20
Sierra Leone	: 29	24	2	1
Somalia	: 279	226	249	76
Sudan	: 129	105	129	39
Swaziland	: 0 2	/ 0	0 3/	0
Syria	$0 \overline{2}$	/ 0	0 3/	0
Tanzania	: 136	110	314	96
Togo	: 0 2		29	9
Tunisia	$0 \overline{2}$	/ 0	0 <u>3</u> /	0
Uganda	: 41	33	116	35
Upper Volta	: 2	2	142	43
Yemen (AR)	: 0 2		0 3/	0
Yemen (PDR)	$0 \overline{2}$		22 —	7
	: 26	21	172	53
Zaire	: 20	21	1/2	23

See footnotes at end of table.

--continued

Table 15--Scaled-Down Food Aid Needs, 1981/82 1/ (Continued)

	: Status			rition
	: Food Aid	Needs :	Food	Aid Needs
Region/Country	: : : : : : : : : : : : : : : : : : :	Scaled- : Down :	: Total :	Scaled- Down
	:	Million	Dollars	
Asia	:			
A E ala and a bare	:	0	0.2/	0.3/
Afghanistan	$0 \frac{2}{}$		0 3/	0 3/
Bangladesh	: 160 : 410	130 333	1064 2745	325
India Indonesia		333 0	0 3/	839 0 3/
	: 0 <u>2</u> / : 40	32	180	0 <u>3</u> / 55
Kampuchea Laos	: 36	29	43	13
Pakistan	: 0 2/	0	0 3/	0 3/
Philippines	$0 \frac{27}{2}$	0	$0.\frac{3}{3}$	$0\frac{3}{3}$
Sri Lanka	: 101 =	82	87 - 3,	27 27
Vietnam	: 438	355	635	194
Latin America	:			
Bolivia	: 6	5	34	10
Colombia	: 0 2/	0	0 3/	0 3/
Dominican Republic	: 5	4	49	15
Ecuador	: 26	21	71	22
El Salvador	: 20	16	42	13
Guatemala	: 9	7	0 3/	0 <u>3</u> /
Haiti	: 50	41	103	31 -
Honduras	: 12	10	40 .	12
Jamaica	: 0 2/	0	0 3/	0 <u>3</u> /
Nicaragua	$0 \overline{2}$	0	0 <u>3</u> /	0 <u>3</u> / 8
Peru	$0 \overline{2}$	0	25	8
Total	: :3,233 :	2,622 <u>5</u> /	8,568	2,621 <u>5</u> /

N.A. = Not available

¹/ Food aid need estimates shown in the methodological note are adjusted so that total aid needs of low income countries equal total aid availability of \$2,620 million.

^{2/} No status quo-based food aid needs.
3/ No nutrition-based food aid needs.
4/ Less than \$500,000.
5/ Does not add to \$2,620 million due to rounding.

USDA recommendations.

Scaling Down Food Aid Needs Table 15 lists country aid allocations after both the status quo and nutrition aid needs totals are scaled down to match estimated aid availability. Each low income country is allocated 81 percent of its status quo aid need and 31 percent or its nutrition-based estimate of aid need. This simplistic scaling down of aid needs has several serious shortcomings. It tends to institutionalize inequalities in the distribution of food among countries. It can lead to food aid allocations which support virtually all of a status quo- or nutrition-based target in one country and a very low percentage in another country. Use of a ranking procedure to first identify those countries with the most severe per capita food aid needs could reduce this type of imbalance in aid allocations.

Ranking Country Aid Needs Table 16 provides the results of a country ranking procedure based on the severity of per capita aid needs. 5/ The per capita measure provides a graphic indication of the relative severity of the gap between food availability and status quo and nutrition-based needs across countries. The per capita calculation also clarifies the relative aid needs of two groups of countries for whom absolute aid needs might be similar—namely, small countries with large per capita needs and larger countries with smaller per capita needs.

The pronounced disparity between status quo and nutrition results points up the differences inherent in the two procedures. Countries such as Somalia, Cape Verde, and Mali rank high in both cases. As a general rule, this indicates

^{5/} Adjustments were made in both the status quo and nutrition-based aid need indicators to compensate for the different proportion of the diet made up by the staples analyzed in this report in each of the low income countries. The percentage of the diet covered by the commodities analyzed for each country was derived from 1975-1977 FAO Food Balance Sheets. This adjustment was necessary because variations in the percent of the diet covered can bias per capita aid needs. Other things being equal, a country with 75 percent of its diet made up of covered staples would have a greater per capita food aid need estimate than a country with 50 percent of the average diet made up of covered staples. Per capita food aid needs were calculated as follows: (Estimated Food Aid Need (\$)/(Group mean percent of diet made up of commodities analyzed in this report))/Population.

Table 16--Per Capita Food Aid Needs, 1981/82 $\underline{1}/$

Region/Country	: Status : Food Aid	•	: Nutri	
	<u>Dollars</u>	Rank	Dollars	Rank
Africa and Middle East	:			
Angola	7.1	14	. 9.0	26
Benin	2.9	33	0	3/
Burundi-	: 4.8	23	3.0	41
Cameroon	2.3	36	6.4	33
Cape Verde	32.5	2	21.7	4
Central African Republic	4.5	25	11.8	15
Chad	: 3.1	30	17.8	12
Comoros	4.9	22	2.5	43
Congo	2.5	34	3.1	40
Djibouti	26.4	3	N.A.	N.A.
Egypt	: 5.3	20	0	3/
Equatorial Guinea	7.8	13	N•A• .	N.A.
Ethiopia Ethiopia	5	47	11.7	16
Gambia	1.6	39	3.2	39
Ghana	4.1	27	11.4.	17
Guinea	8.0	11	18.0	10
Guinea-Bissau	4.9	21	8.2	30
Israel	0	2/	0.2	3/
	: 0	$\frac{2}{2}$	• 6	3 / 46
Kenya	7.0	15	17.4	13
Lebanon	: 1.6	38	0	3/
Lesotho	2.5	35	2.5	$\frac{37}{42}$
Liberia	: 4.6	24	1.5	45
	2.0	37	0	3/
Madagascar Malawi	: .2	51	3.9	37
Mali	16.7	4	45.6	2
Maii Mauritania	3.9	29		7
			18.6	
Mariera	: 11.4	6	0	$\frac{3}{3}$
Morocco	: 14.6	5 7	8.3	28
Mozambique	: 9.9		21.2	5
Niger	: 0	$\frac{2}{48}$	0	$\frac{3}{34}$
Rwanda .	5		6.2	
Senegal	. 8	44	10.8	18
Sierra Leone	8.0	10	•6	48
Somalia	: 59.7	1	53.3	1
Sudan	6.6	17	6.6	32
Swaziland	: 0	$\frac{\frac{2}{2}}{12}$ $\frac{\frac{2}{2}}{\frac{2}{32}}$	0	$\frac{\frac{3}{3}}{\frac{3}{9}}$
Syria	: 0	$\frac{2}{1}$		3/
Tanzania	7.8	12	18.1	9
Togo	: 0	$\frac{2}{3}$	9.1	24
Tunisia	: 0	$\frac{2}{3}$	0	$\frac{3}{30}$
Uganda	2.9	32	8.2	<u>2</u> 9
Upper Volta	: .3	50	18.1	8
Yemen (AR)	: 0	$\frac{2}{2}$ /	0	$\frac{3}{1}$
Yemen (PDR)	: 0	$\frac{2}{4}$	11.9	14
Zaire	. 8	4 5	5.3	36
Zambia	7	46	17.8	11

See footnotes at end of table.

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Table 16--Per Capita Food Aid Needs 1981/82--Continued 1/82

Region/Country		us Quo id Needs	: Nutrit: : Food Aid :	
	: Dollars	Rank	<u>Dollars</u>	Rank
Asia	:			
Afghanistan	: 0	2/	0	3/
Bangladesh	: 1.3	$\overline{4}1$	8.4	$\frac{3}{2}$ 7
India	: •5	49	3.2	38
Indonesia	: 0	$\frac{2}{19}$	0	$\frac{3}{3}$
Kampuchea	: 5.7	$\overline{1}$ 9	25.7	_3
Laos	: 8.2	9	9.8	23
Pakistan	: 0	2/	0	3/
Philippines	: 0	$\frac{\frac{2}{2}}{18}$	0	$\frac{3}{3}/$ $\frac{3}{3}5$
Sri Lanka	: 6.4	18	5.5	$\overline{35}$
Vietnam	: 6.9	16	10.0	22
Latin America	:			
Bolivia	: 1.1	42	7.7	31
Colombia	: 0	2/	0	$\frac{3}{21}$
Dominican Republic	: 1.0	4 3	10.1	
Ecuador	: 3.9	28	10.6	19
El Salvador	: 4.3	26	9.1	25
Guatemala	: 1.3	40	0	<u>3</u> /
Haiti	: 9.1	8	18.6	6
Honduras	: 3.1	31	10.2	20
Jamaica	: 0	$\frac{\frac{2}{2}}{\frac{2}{2}}$	0	$\frac{3}{3}$ / $\frac{3}{44}$
Nicaragua	: 0	2/	0	3/
Peru	: 0	<u>2</u> /	1.7	44

Food aid needs shown in appendix tables divided by population. Food aid need data adjusted to compensate for variations in percent of diet composed of staple foods covered in this report.

 $[\]frac{2}{3}$ No status quo-based food aid needs. No nutrition-based food aid needs.

a large margin between domestic per capita food availabilities and the supplies of staples required to raise per capita intake to the levels associated with the FAO/WHO recommended minimum—a gap filled in recent years in part by large commercial imports, which are no longer affordable, or by food aid. In the case of Somalia, high per capita estimates are due to the influx of more refugees than can be fed from domestically produced supplies or commercial imports.

Countries like Kampuchea, Mauritania, and Upper Volta have much higher nutrition-based than status quo-based per capita aid needs. The wide margin is indicative of a serious gap between per capita availabilities and the supply necessary to achieve the FAO/WHO recommended minimum which has not been filled by commercial imports or food aid in recent years.

Countries such as Morocco and Mauritius have high per capita aid needs using the status quo method but relatively low needs using the nutrition method. In these countries, domestic production, commercial imports, or food aid donations have, in recent years, provided per capita availabilities above the level associated with the FAO/WHO recommended minimum levels. Aid allocations to those countries using status quo-based estimates of need would support a level of average consumption above the FAO/WHO recommended minimum.

METHODOLOGICAL NOTE: CALCULATING FOOD AID NEEDS

The role aid can play in meeting the low income countries' food problems is critical enough to warrant a systematic and objective assessment of country needs. Both methods of calculating food aid needs used in this report have these goals.

The two methods have a common structure. They assess domestic food needs and food supplies to arrive at an estimate of country import requirements. From this import requirement they subtract a common commercial import capacity estimate. The result is an estimate of food aid needs.

The two methods also make the same assumptions about the substitutability of food products in the diet. Cereals, roots and tubers, and pulses are treated as calorie sources substitutable on a caloric equivalent basis. This approach is expedient for roots and tubers because they are generally not traded. In a similar fashion, pulses can be treated as protein (South Asia) or calorie (Latin America) sources, and substituted for by cereals on the appropriate calorie or protein basis. Vegetable oils and milk are not considered substitutes for cereals, however, because of their different roles in food preparation and consumption.

Method of Calculating Status Quo-Based Import Requirements

Status quo food import requirements are calculated as follows:

Import Requirements = Domestic Requirements - Domestic
Availability or:

1981/82 Import Requirement =
$$\Sigma$$
 (((P · Co_n/1,000) · E_n) + F_n)-
(tons) n=1

$$((Pr_n + BS_n) / WE_n)$$

where:

- N = the number of basic food staples in a particular low income country needed to make up two-thirds of total food intake,
- P = 1981 population in the country, in millions,
- Co_n = intake of the nth commodity in the country expressed as kilograms per capita during the 1977/78-1980/81 period.
- E_n = 1 plus the targeted 1981/82 ending stock level of the nth commodity in the country expressed

as a percentage of consumption in the base period (1977/78-1980/81). This level depends on the beginning stock for the nth commodity for the 1981/82 commodity marketing year. If the beginning stock level is below the base period range, aid is allocated for stock rebuilding; if the beginning stock level is more than the range defined for the historical period, stocks are drawn down before aid is allocated,

 F_n = feed use of the nth commodity during the base period,

 $Pr_n = 1981/82$ production of the nth commodity,

 BS_n = 1981/82 beginning stocks of the nth commodity,

 WE_n = wheat equivalent of the nth commodity. (Wheat equivalent conversion is used only for roots and tubers, pulses, and groundnuts).

Food aid donations estimated using this measure of need underwrite the per capita status quo in the low income developing countries. No provision is made for the use of aid to improve diets. Food aid protects recipient countries from fluctuations in domestic food production and excessive stock drawdown. Aid needs decrease in response to windfalls in a country's food production or the accumulation of excess food stocks. Aid needs would increase in response to food production shortfall, or a weakening food security position.

The status quo measure generally results in estimates of food aid needs which are close to aid availabilities. On the other hand, it institutionalizes an uneven distribution of food across countries. The status quo measure uses a recent historical intake norm, regardless of where the norm stands relative to the FAO/WHO recommended minimum. As a result, aid can be allocated to maintain per capita intake, for example, 10 to 20 percent below the recommended minimum.

Method of Calculating Nutrition-Based Import Requirements

The nutrition-based method compares domestic availabilities to a nutritional standard in order to arrive at a measure of import requirements. National food balance assumptions are used to calculate availabilities in terms of actual food. The nutritional standards used in these calculations are the FAO/WHO country-specific recommended minimum daily per capita caloric intake levels.

The food balance assumptions have well-known limitations. The issue relevant here is whether their use introduces any bias across the group of countries examined. Most likely it does not, since data on particular elements of these food balances (like seed, feed, or waste rates) are of similar

reliability in nearly all developing countries. It must be remembered that the food balance is not being used here to obtain the most reliable estimate of avialability of a particular commodity. Rather its role is to facilitate the ranking of food aid needs in a group of countries on a nutritional basis. In this context, moreover, if the initial estimates of food aid needs arrived at are greater than estimated food aid availabilities, the priorities prescribed by the nutrition-based method can be easily preserved by scaling down import requirements in all countries. These lower aid allocations may very well be more consistent with the absorptive capacities of the economies receiving food aid.

The FAO/WHO standards have been criticized for overestimating minimum caloric requirements. It must be remembered, however, that for the purposes of these calculations the most reliable estimate of the absolute level of aid needs for a particular country is not as relevant as a set of estimates whose relative levels are unbiased across countries. Most likely the FAO/WHO standards will adequately fulfill this requirement for the low income countries because they are developed using a consistent methodology across all countries.

The algebra below shows that in the nutrition-based method a caloric share and an import requirement are calculated for each commodity. By itself, this would be an excessively rigid means of assessment; the aggregation process, however, embodies substitutability assumptions which maintain commodity flexibility in the total import requirement.

The calculation of the import requirement for the nutritionbased method is as follows:

1981/82 Import Requirement =
$$\sum_{m=1}^{N} (RM_n - DA_n)/MR_n$$

where:

$$RM_n = (BPCAL_n/BPCAL_T)RMCAL_T$$

$$DA_{n} = [(PR_{n} + BS_{n} - ES_{n}) (1 - (NFU_{nr} + FR_{n} + WR_{nr})) - (SR_{n} - PR_{n})] (MR_{n}) (1 - (NFU_{nm} + WR_{nm}))$$

given:

N = number of basic food staples needed to make up twothirds of the calories in the average diet in the base period (1975-1977),

 ES_n = targeted 1981/82 ending stock level of the nth commodity,

 $BS_n = 1981/82$ beginning stock level of the nth commodity,

 $PR_n = 1981/82$ forecast production of the nth commodity,

 MR_n = milling/extraction rate of the nth commodity,

 DA_n = net milled domestic availability of the nth commodity,

 RM_n = recommended minimum intake of the nth commodity (i.e., net, milled amount of the nth commodity associated with the 1980 FAO/WHO recommended minimum caloric intake),

 $BPCAL_n$ = calories obtained from the nth commodity or commodity group in the base period (1975-1977),

 $BPCAL_T$ = total calories obtained from the average diet in the base period (1975-1977),

 $RMCAL_T$ = the FAO/WHO recommended minimum caloric intake for the country,

 NFU_n = rate of utilization of the nth commodity in nonfood uses, calculated as 1975-1977 FAO food balance items nonfood use divided by domestic supply. (Second subscript r indicates rough, m indicates milled),

 FR_n = rate of utilization of the nth commodity as feed, from the 1975-1977 FAO food balances,

 WR_n = rate of waste of the nth commodity from the 1975-1977 FAO food balances; second subscripts are the same as in NFU,

 SR_n = rate of utilization of the nth commodity as seed, calculated as 1975-1977 FAO food balance seed use divided by production, and

Net = net of seed, feed, waste, and nonfood use.

It should be noted that:

- 1. FAO data and standards given on daily bases are converted to annual bases.
- 2. Calories available from a commodity are derived using the 1975-1977 FAO food balance data pertaining to the particular country and commodity.
- 3. The base period used is 1975-1977 unless an atypical average suggests the use of one of the three years individually. In some countries it may be necessary to further adjust a particular commodity's share of total caloric intake because of differences in production or other data between ERS and FAO, or to reflect changing availability since 1977.
- 4. The recommended minimum per capita intake ("per capita requirement"), as shown in this report for 1981/82 and 1982/83, may vary. These numbers are on a gross, unmilled basis (except for rice). They vary because there is no seed, feed, or waste deducted from imports (as there is from domestic production) and the mix of imports and domestic production in total availability changes from year to year. At the levels of per capita requirements

shown, however, actual per capita consumption of a commodity would be the same in both years.

5. For most countries the level of feed use implied by the feed rates in the 1975-1977 FAO food balances is very similar to the level of feed use allowed in status quo method calculations. Where sharp differences occurred in the feed levels used in the status quo calculations (1977/78-1980/81 average levels) and FAO feed assumptions, adjustments were made in the feed rates and caloric consumption levels for the purposes of the nutrition-based calculations. In those countries where status quo estimates of feed use exceed domestic production, additions were made to nutrition-based import requirements to bring availability for feed up to the level used in the status quo calculations.

Food aid donations allocated using the nutrition-based measure of need underwrite the closing of the gap, if any, between domestic availabilities and the amount of food staples needed to bring average caloric intake to the level prescribed by the FAO/WHO recommended minimum. These allocations do not allow food aid to underwrite average levels of caloric intake above the nutritional standard. Calculated aid needs increase as inadequate domestic production or stock rebuilding needs create a larger average caloric deficit and decrease as domestic production or accumulation of excess stocks reduce the deficit.

Method of Calculating Commercial Import Capacity The capacity of a low income country to import staple foods commercially is calculated as follows.

1981/82 Commercial Import Capacity =

((EXE + EIR - DS) PAEX)/CIV

where:

EXE = the country's 1981 export earnings,

EIR = 1981 international reserves over and above the levels needed to maintain the country's historical ratio of reserves to imports,

DS = 1981/82 debt service obligations,

PAEX = the country's proportion of 1977-1980 export earnings, adjusted for debt service payments, spent on commercial imports of basic foodstuffs, and

CIV = forecast 1981/82 import unit value for the staples analyzed.

Subtraction of the commercial import capacity from status quo

and nutrition based import requirements yields the estimated levels of food aid needs. Deduction of the commercial import capacity from import requirements allows variations in a country's financial situation to influence the level of food aid needs. Increases in export earnings or international reserves, or decreases in total import costs, import unit values or debt service obligations will boost a country's capacity to import commercially and diminish aid needs. Similarly, declines in export earnings or international reserves, or increases in food import unit values or debt service obligations will decrease commercial import capacity, leading to greater food aid needs.

Country and Year	: Int'l. :Reserves :(on 12/31	:f.o.b					s: 1981 and 1982 Conditions as of June 1981 :
	:	1	Million	U.S. Dol	lars		
1977-80 1980 Prel. 1981 Est. 1982 Est.	: : NA : : : : : : : : : : : : : : : : :	NA	NA.	NA	NA	NA	: :Petroleum exports provide bulk of export earnings, al :lowing reserves to increase despite declining coffee :exports. Commercial imports, especially food, will :continue increasing rapidly. Stable petroleum prices :may dampen imports in 1981. :
3ENIN 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 15 : 8 : 8 : 8	30 31 32 33	275 300 370 410	-245 -269 -338 -377	9 11 12 14	NA NA NA NA	: :Trade deficit worsening due to low cocoa and palm :export prices and drop in agricultural production :affecting export volume. Reserves will continue :declining as a percentage of imports.
3URUNDI 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 90 : 95 : 87 : 85	85 76 80 85	129 191 195 205	-44 -115 -115 -120	4 6 6 9	6 24 28 33	: :Dependence on coffee export earnings will render in- :creasing trade deficit while coffee prices are low. :Increasing imports, climbing debt service payments, :and reduced transfers will draw down reserves. :
AMEROON 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 104 : 197 : 220 : 280	1,052 1,579 1,832 2,264	1,187 1,634 1,800 2,150	-135 -55 32 114	122 212 246 304	120 160 Exporter Exporter	: :Increases in petroleum export earnings will offset :declines in coffee and cocoa, yielding a trade sur- :plus. Newly proposed policies should mitigate debt :burden and help buoy reserves. :
2APE VERDE ISLANDS 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 39 : NA : NA : NA	3 4 4 4	41 50 60 72	-38 -46 -56 -68	1 1 1	1 2 2 3	: :Growing trade deficit will continue to be financed :by aid transfers, capital inflows, and workers' re- :mittances. Increase in trade deficit is projected, :in part, because of severe drought. :
DENT'L. AFRICAN R. 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 2: 36 : 49 : 53 : 58	90 94 100 115	96 120 125 135	-6 -26 -25 -20	6 16 16 13	NA NA NA NA	: :Trade deficit should drop from 1980 high, as export :growth exceeds import growth. Large transfer pay- :ments are expected to alleviate pressures on pay- :ments arrears and provide increases in reserves. :
1977-80 1980 Prel. 1981 Est. 1982 Est.	: : 11 : 3 : 2 : 4	92 53 65 83	197 88 160 210	-105 -35 -95 -127	17 17 16 14	NA NA NA NA	: :Economy is stabilizing in wake of civil strife. In- :crease in trade deficit through 1982, is projected as :restoration of peacetime economy increases import :demand.
CONGO 1977-80 1980 Prel. 1981 Est. 1982 Est.	: : 41 : 90 : 95 : 100 :	· 295 350 458 600	263 300 398 480	32 50 60 120	66 91 127 124	Exporter Exporter Exporter Exporter	: :Large petroleum exports constitute majority of export :earnings and offset declining agricultural exports. :Stable oil prices will moderate export earnings, :though increased production and government policy :to temper imports should enlarge trade surplus. :Reserves will increase as growth in new debt :moderates.
0JIBOUTI 1977-80 Prel. 1980 Prel. 1981 Est. 1982 Est.	: NA : NA : NA : NA : NA :	59 72 80 90	134 162 190 215	-75 -90 -110 -125	0 0 0 0	.7 .7 .8 .9	: :Disruptions in local economic activity, due to Ethiop :ian conflict, continue weakening earnings from port :activity and making Djibouti increasingly dependent :on aid to finance trade deficit. :
1977-80 1980 Prel. 1981 Est. 1982 Est.	: 625 : 1,046 : 1,100 : 1,000	1,627 2,787 4,000 6,000	4,934 4,353 6,000 8,000	-3,307 -1,566 -2,000 -2,000	1,216 1,511 1,506 1,548	Exporter Exporter Exporter Exporter	: :Despite petroleum exports, trade deficit is high as :subsidized consumer prices tend to swell import :bill. Capital inflows are expected to increase :reserves in 1981, though in 1982, reserves should :drop.
See footnotes a	: t end of ta	ble.					:

Country and Year		:f.o.b.		:Balance			
	:		Million	U.S. Dolla	ars		:
1977-80 1980 Prel. 1981 Est. 1982 Est.	: : 155 : 80 : 66 : 55	392 502 527 550	516 700 750 880	-124 -198 -223 -330	28 33 36 47	94 100 120 135	: :Trade deficit will widen while coffee prices remain :low. Debt service and financial drain of conflict :with Somalia and Eritrea continue to drawdown re- :serves, though this drop is partly mitigated by large :long-term capital inflows.
GAMBIA 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 14 : 6 : 6 : 7	45 32 50 60	121 164 190 220	-76 -132 -140 -160	1 1 3 3	10 12 13 15	: Shortfall in groundnut production severely con- :strained export earnings in 1980, widening the trade :deficit. Depleted reserves covered two weeks of ex- :ports in 1980; situation is not expected to improve :in late 1981 or early 1982.
1977-80 1980 Prel. 1981 Est. 1982 Est.	: 231 : 197 : 220 : 280	986 1,021 1,173 1,300	869 936 1,115 1,280	117 85 58 20	51 70 69 63	168 294 350 440	: Lower world cocoa prices and declining Ghanaian pro- :duction will reduce export earnings during 1981 and :1982. Reserves should increase at a slow rate despit :the debt service payments dropping. :
1977-80 1980 Prel. 1981 Est. 1982 Est.	: 24 : 28 : 26 : 28	340 350 360 375	302 360 450 500	38 -10 -90 -125	89 140 153 141	NA NA NA NA	: :Trade deficit projected to worsen, and debt service :to increase, in 1981. :
1977-80 1980 Prel. 1981 Est. 1982 Est.	: NA : NA : NA : NA :	11 12 13 14	42 44 48 53	-31 -32 -35 -39	0 0 0 0	3 3 3 3	: :Dependence on grants to finance trade deficit worsene :by drought and civil disorder. Trade deficit is ex- :pected to increase sharply in 1981 and 1982. Food in :port capacity is virtually nonexistent. :
1977-80 1980 Prel. 1981 Est. 1982 Est.	: 2,640 : 3,351 : 3,319 : 3,280	4,272 5,528 7,300 9,000	7,780 9,299 11,000 13,500	-3,508 -3,771 -3,700 -4,500	799 1,171 1,104 1,104	NA NA NA NA	: :Inflation and increasing trade deficit placing strain :on general economy and financial situation, although :slight drop in reserves should not have much affect :on food import capacity. :
JORDAN 1977-80 1980 Prel. 1981 Est. 1982 Est.	959 1,143 966 950	375 550 605 665	1,944 2,933 3,432 4,015	-1,569 -2,383 -2,827 -3,350	88 160 180 178	NA	
XENYA 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 499 : 492 : 442 : 425	1,163 1,330 1,510 1,700	1,761 2,411 2,615 2,930	-598 -1,081 -1,105 -1,230	108 160 208 241	359 632 850 1,100	: :Trade deficit expected to grow slowly as export :earnings decelerate due to low coffee prices, and :as net oil imports grow. Lack of production in- :centives and recent bad weather adversely affected :agricultural production, requiring larger imports.
LEBANON L977-80 1980 Prel. 1981 Est. 1982 Est.	: 1,631 : 1,588 : 1,520 : 1,475	672 715 720 740	2,025 2,450 2,600 2,800	-1,353 -1,735 -1,880 -2,060	11 21 35 82	NA NA NA	: :Surplus in services account, aid transfers, and :capital inflows finance large trade deficits. :Fighting in southern Lebanon and threat of military :buildup portends bleak trade picture. Debt service :payments may increase substantially in 1982.
LESOTHO 1977-80 1980 Prel. 1981 Est. 1982 Est.	: 25 : 15 : 18 : 21	29 40 45 53	254 300 385 440	-225 -260 -340 -387	2 5 6 6	NA NA NA NA	: :Workers' remittances and aid transfers partially :offset trade deficit and private capital outflows. :Debt service is low and stable, but worsened trade :imbalance will draw down reserves. :
1977-80 1980 Prel. 1981 Est. 1982 Est.	: 26 : 4 : 7 : 15	518 601 625 715	501 550 610 655	17 51 15 60	47 54 62 66	75 73 84 90	: :Trade surplus occurred in 1980 despite effective :collapse of economy following coup. Shortage of :capital inflows will probably restrict imports :in 1981 and 1982, resulting in continued surpluses. :
MADAGASCAR 1977-80 1980 Prel. 1981 Est. 1982 Est.	: : 34 : 2 : 5	381 405 490 510	561 727 800 875	-180 -322 -310 -365	22 44 47 48	144 185 222 265	: :0il imports and lower world prices for exports ac- :count for major growth in trade deficit, which has :been financed primarily by foreign borrowing. :

Country and Year		:f.o.b.					
	:(on 12/31	L):	:	:	: Due	:	:
	:	7	Million	U.S. Doll	lars		
MALAWI	:						•
1977-80	: 75	233	354	-121	27	42	:Trade and service accounts deficits have created a
1980 Prel.	: 68	314	444	-130	46	65	:serious current account deficit, financed by private
1981 Est. 1982 Est.	: 33 : 21	355 410	480 530	-125 -120	. 66	78 95	:capital inflows and drawdown of reserves. Weak infra- :structure and transportation disruptions prevent Ma-
	:	410	330	120	. 00	73	:lawi from taking advantage of export markets in 1981 and 1982.
MALI 1977-80	: 9	127	305	- 178	13	57	: :Increasing debt service payments and trade deficits
1980 Prel.	: 15	176	417	- 241	29	97	:will continue to be financed by aid inflows through
1981 Est.	: 21	185	440	-255	37	118	:1982. Reserves will increase through 1982, also
1982 Est.	: 26	195	465	-270	38	135	:because of aid inflows.
MAURITANIA	:				•		
1977-80	: 96	153	231	- 78	60	24	:Drop in world price of iron ore has aggravated the
1980 Prel.	: 140	187	280	- 93	103	31	:trade deficit, though impact on reserves is partly
1981 Est.	: 134	215	340	- 125	56	39	:offset by debt rescheduling in 1979 and 1980, and in-
1982 Est.	: 140	260	400	-140	60	46	:creased capital inflows.
MAURITIUS	:						
1977-80	: 58	353	526	- 173	17	67	:Despite increases in world sugar prices, sugar export
1980 Prel.	: 91	370	603	-233	33	109	:earnings for 1980 were lowest in three years. Pro-
1981 Est.	: 85	400	625	- 225	38	125	:jected import-export ratio is expected to increase
1982 Est.	: 180	190	250	- 60	4	45	:due to aid transfers.
MOROCCO	:						
1977-80	: 520	1,824		-1,720	675	517	:Despite large amounts of aid and workers' remittances,
1980 Prel.	: 399	2,411	4,299	-1,888	1,082	865	:reserves continue to decline because of the trade im-
1981 Est.	: 200 : 180	2,900	4,650 5,000	-1,750 -1,600	1,977	1,100	:balance, high debt service payments, cost of military
1982 Est.	: 160	3,400	3,000	-1,600	1,090	1,350	<pre>:conflict and drought. Favorable phosphate prices have :helped to increase export earnings over levels of pre- :vious years.</pre>
MOZAMBIQUE 1977-80	: NA	172	523	-351	NA	109	: Falling agricultural production warrang trade deficit
1977-80 1980 Prel.	: NA	200	560	-360	NA NA	130	:Falling agricultural production worsens trade deficit. :Situation exacerbated by reduced exports and rapidly
1981 Est.	: NA	210	600	-390	NA	156	expanding food and oil imports.
1982 Est.	: NA	220	650	-430	NA	180	:
NIGER	:						: :
1977-80	: 127	353	378	-25	13	NA	:Large increases in uranium export earnings in late
1980 Prel.	: 149	600	700	-100	19	NA	:seventies are expected to moderate through 1981 and
1981 Est.	: 145	575	788	-213	34	NA	:1982. Significant increase in trade deficit and large
1982 Est.	: 140	625	840	-215	43	NA	:jump in debt service will draw down reserves through
RWANDA	:						: 1982. :
197.7-80	: 128	116	169	-53	2	19	:Slow import growth softening increase in trade defi-
1980 Prel.	: 187	140	180	-40	3	29	:cit; Rwanda depends almost entirely on coffee and tin
1981 Est.	: 174	155	200	- 45	3	36	:for exports, and world prices are low. Reserves are
1982 Est.	: 180	190	250	-60	4	45	<pre>:expected to increase due to aid transfers. :</pre>
SENEGAL	:						:
1977-80	: 21	594	822	-228	110	143	:Foreign exchange earnings dropped in 1980 because of
1980 Prel.	: 12	547	900	-353	161	263	:low peanut production, swelling trade deficit, and re-
1981 Est.	: 10	800	1,005	- 205	157	325	:ducing reserves. Rebound in peanut output should re-
1982 Est.	: 13	900	1,100	-200	143	400	<pre>:duce deficit, but large oil imports will limit growth :of reserves.</pre>
	:						:
SIERRA LEONE	:						:
1977-80	: 36	214	308	- 94	51	34	:Trade deficit and overall BOP deficit expected to in-
1980 Prel.	: 31	210 232	320 368	-110 -136	73 49	42 50	:crease through 1982. Debt service should ease as new :debt acquisition is held to minimum. Drawdown in re-
1981 Est. 1982 Est.	: 22	232	450	-136 -205	38	60	:serves and worsened trade balance impairing capacity
2,02 200.	:	243	.50	203			to import food commercially.
SOMALIA	:						
1977 - 80	: 81	98	305	-207 -242	8	NA NA	:Agricultural production and exports hampered by
1980 Prel. 1981 Est.	: 33 : 20	117 130	359 380	-242 -250	20 39	. NA NA	<pre>:drought, and food supply strained by drought-displaced :persons and refugees. Aid, grants, and debt forgive-</pre>
1982 Est.	: 20	145	405	- 260	40	NA NA	:ness help relieve pressure on dwindling reserves.
	:	_					
See footnotes a	at end of t	table.					Continued

Country and Year		:f.o.b	· : cif	:Baland	ce:Servi		
	:(on 12/31	L):	-:	:	: Due	:	:
·	: :	1	Million	U.S. Dol	lars		
SUDAN	:						
1977-80	• • 42	577	1,253	-676	178	180	:Shortfall in cotton production reducing export earn-
1980 Prel.	: 49	580		-1,052	296	286	ings, widening trade deficit. Trade imbalance and
1981 Est.	: 33	570		-1,130	382	343	:severe domestic inflation further destabilize finan-
1982 Est.	: 20	615	1,775	-1,160	379	400	cial situation, causing drawdown in reserves through
SYRIA	: :						:1982.
1977-80	: 450	1,258	2,821	-1,563	286	Exporter	:Fighting in Lebanon exacerbates already severe trade
1980 Prel.	: 350	1,800	•	-1,700	392	Exporter	:deficit. Expenditures are diverted to military use
1981 Est.	: 320	2,000	3,800	-1,800	447	Exporter	and technical problems curtail petroleum refining.
1982 Est.	: 330 :	2,200	4,000	-1,800	466	Exporter	:Slowed aid transfers will force draw down of re- :serves in 1981.
TANZANIA	:						:
1977-80	: 118	527	1,068	-541	49	171	:Financial aid alleviates pressure on reserves caused
1980 Prel.	: 20	543	1,267	-724	80	262	:by large trade deficit and low agricultural produc-
1981 Est.	: 15	625	1,464	-839 -943	90 91	340 415	:tion. Food constitutes large percentage of imports.
1982 Est.	: 18 :	707	1,650	-943	91	415	:Reserve drawdown serious.
TOGO	:						:Large arrearage forced Togo to restructure debt in
1977-80 :	: 65	276	471	-195	63	55	:1979 and 1980. Planned drop in foreign borrowing
1980 Prel.	: 77	403	529	-126	100	74	:should lighten debt service payments and ease pres-
1981 Est. :	: 106 : 91	452 523	558 625	-106 -102	97 78	88 105	:sure on reserves. Export growth of phosphates should :lower trade deficit.
1702 ESC.	. <i>)</i> 1	323	023	102	, 0	103	:
TUNISIA	:						:
1977-80 :	: 491	1,546		-1,057	263	Exporter	:Substantial trade deficit financed by workers' remit-
1980 Prel.	: 590	2,225		-1,414	392	Exporter	:tances, tourism, foreign capital. Growth in debt ser
1981 Est. :	: 521 : 500	2,400 2,700		-1,752 -1,876	467 478	Exporter Exporter	:vice and slight increase in import/export ratio will :force drawdown in reserves. Financial situation re-
1702 1151.	. 300 :	2,700	7,570	1,070	470	LAPOTEEL	:latively stable.
	:						
UGANDA :	:	126	201	015	10	27.4	
1977-80 1980 Prel.	: 34 : 17	436 380	221 202	215 178	19 29	NA NA	:Economy still suffers from domestic instability. Ex- :port earnings continue falling as agricultural and
1981 Est.	· 17	361	230	131	34	NA NA	industrial production decline, and coffee prices
	: 13	343	275	68	31	NA	:stagnate. Despite import restrictions, the import/
	:						:export ratio will climb and reserves will continue
HDDED MAKEN	:						:falling.
UPPER VOLTA 1977-80	: 55	58	241	-183	8	21	: :Aid transfers, foreign borrowing, and workers' re-
1980 Prel.	: 66	69	287	-218	11	25	:mittances financing severe trade deficit. Government
1981 Est.	: 71	71	303	-232	12	30	:policies to dampen import growth and restrict credit
1982 Est.	: 75	75	325	- 250	15	37	:help keep BOP deficit from even faster growth.
YEMEN, A.R.	:						
1977-80	: 1,353	8	1,267	-1,259	24	30	:Workers' remittances contributed heavily to balancing
1980 Prel.	: 1,283	3		-1,597	29	53	:current account and, with aid transfers, offsetting
1981 Est.	: 1,194	10		-1,690	32	85	:trade deficit. Policies limiting import growth shoul
1982 Est.	: 1,100	12	1,790	-1,778	40	140	:slow decrease in reserves; increases in remittances :could slow as Saudi oil production stabilizes.
YEMEN, P.D.R.	:						:
1977-80	: 183	228	594	-366	16	59	:Trade deficit financed largely by workers' remit-
1980 Prel.	: 234	250	650	-400	17	NA	:tances. Continued decline in remittances make aid
1981 Est. :	: 244	300	750	-450	47	NA	:transfers increasingly important.
1982 Est.	: 250 :	360	835	- 475	42	NA	•
ZAIRE	:						:
1977-80	: 167	1,225	656	569	257	136	:Despite trade surplus, severe financial problems put
1000 p	: 204	1,664	829	. 835	606	231	:BOP on shaky foundation. Import restrictions allow
1980 Prel.	: 210	1,850 2,100	850 900	1,000 1,200	. 603 534	250 275	:for continued trade surplus though copper and coffee :prices on downward trend. Declining debt service pay
1981 Est.	. / 17	-,100	,00	1,200	234	213	ments and stable reserves should prevail through 1982
	: 215 :						
1981 Est. 1982 Est. ZAMBIA	: :						•
1981 Est. 1982 Est. ZAMBIA 1977-80	: : : 69	1,190	924	266	237	122	:Ending of fighting in Zimbabwe improved access to
1981 Est. 1982 Est. 2AMBIA 1977-80 1980 Prel.	: : 69 : 78	1,530	1,160	370	274	157	:ports, facilitating exports. Import restrictions
1981 Est. 1982 Est. ZAMBIA 1977-80	: : : 69			370 431			

NA = Not available.
All data quoted on calendar year basis.

	: (Commodity	Production,	Disappeara	ance, and	Trade Da	ta	:	Aid Calcula	ation	
Country, Commodity, and Year	: Forecast : Production:	Stocks	: Actual or : Targeted	:Targeted	:Targeted	i : Targ	geted port		Capacity	Food	s Quo l Aid eds
	:			1 00	o	1,000	Million	1,000	Million		Million
ANGOLA 1/	: <u>1,000</u> :	Tons	Kilograms	1,000	O Tons	Tons	Dollars	Tons	Dollars	Tons	Dollars
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 379 : 343 : 270 : 324	0 0 0 0	92 99 92 92	595 653 619 628	0 0 0 0	216 310 349 304					
Cassava 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 1,765 : 1,800 : 1,750 : 1,800	0 0 0 0	273 272 273 273	1,765 1,800 1,834 1,865	0 0 0 0	0 0 84 65					
Total <u>2/</u> 1981/82 Est. 1982/83 Est.	:	ΞΞ	, <u></u>	. ==	==	383 329	99 91	200 225	52 62	183 104	47 29
BENIN	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 370 : 377 : 384 : 393	0 0 0 0	125 126 125 125	426 437 446 459	0 0 0 0	56 60 62 66					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 1,329 : 1,400 : 1,430 : 1,455	0 0 0 0	390 403 390 390	1,329 1,400 1,393 1,432		0 0 3/ (37) <u>3</u> / (23)	(1) (1)				
Total 2/ 1981/82 Est. 1982/83 Est.	: : : : :	==	==	==	==	59 64	. 15 17	14 9	4 2	45 55	11 15
BURUNDI	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 391 : 400 : 416 : 421	0 0 0	98 97 98 98	406 416 432 444	0 0 0	15 16 16 23					
Roots and Tubers 1977/78-1980/81 1981/82 Prel. 1981/82 Est. 1982/83 Est.	: 1,861 : 1,900 : 1,915 : 1,930	0 0 0	450 442 450 450	1,861 1,900 1,982 2,035	0 0 0 0	0 0 67 105					
Total 2/ 1981/82 Est. 1982/83 Est.	: : : - -	==	Ξ	Ξ	==	33 51	22 37	2 1	1	31 50	21 36
CAMEROON 1/	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 877 : 910 : 921 : 927	0 0 0	120 117 120 120	993 1,030 1,098 1,124	0 0 0 0	116 120 177 197					
Roots and Tubers 1977/78-1980/81 1980/81 Prel.	: 2,318 : 2,370	0 0	280 270	2,318 2,370	0	0 0			l		
See footnotes at e	end of table.	-								Co	ntinued

	:		Production,				ta	: Aid Calculation :				
Country, Commodity, and Year	:Actual or : : Forecast : :Production:	Stocks		:Targeted : Usage :	Targeted	: Ta	rgeted mport		ercial Capacity	: Fo	tus Quo od Aid Needs	
	: :1,000	Ton	Kilograms	1,000		1,000 Tons	Million Dollars	1,000 Tons	Million		Million	
CAMEROONCon.	:1,000	ions	KIIOGRAMS		Tons	lons	Dollars	Ions	Dollars	Tons	Dollars	
Roots and TubersCon. 1981/82 Est. 1982/83 Est.	2,450 2,480	0 0	280 280	2,563 2,625	0 0	113 145						
Groundnuts 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 90 : 92 : 94 : 95	0 0 0	11 . 11 11 11	90 92 101 103	0 0 0 0	0 0 4/ 7 <u>4</u> / 8						
Total 2/ 1981/82 Est. 1982/83 Est.	:			 	 	227 260	67 81	155 173	46 54	72 87	21 27	
CAPE VERDE	:											
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : : 4 : 4 : 7 : 7	0 0 0 0	172 183 193 193	57 63 66 68	0 0 0 0	53 59 59 61	10 11	8 7	1 1	51 54	9 10	
CENTRAL AFRICAN REP.	:											
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 76 : 80 : 82 : 85	0 0 0 0	40 43 40 40	89 100 95 98	0 0 0 0	13 20 13 13						
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 1,175 : 1,200 : 1,210 : 1,235	0 0 0 0	521 512 521 521	1,175 1,200 1,258 1,296	0 0 0 0	0 0 48 61						
Total 2/ 1981/82 Est. 1982/83 Est.	: : :		==	==	 	28 37	13 17	5 5	2 2	23 32	11 15	
CHAD 1/	:											
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 760 : 728 : 776 : 778	0 0 0 0	177 163 177 177	793 758 827 860	0 0 0 0	33 30 51 82						
Cassava 1977/78-1980/81 1981/82 Prel. 1981/82 Est. 1982/83 Est.	: : 175 : 175 : 180 : 180	0 0 0 0	39 38 39 39	175 175 182 190	0 0 0 0	0 0 2 10						
Total 2/ 1981782 Est. 1982/83 Est.	:	ΞΞ	 			52 86	15 27	5 7	1 2	47 79	14 25	
COMOROS	:											
Rice 1977/78-1980/81 1980/81 Prel.	: : 11 : 12	0	93 100	33 37	0	22 25						

	:	Commodity	: Aid Calculation :								
	: Forecast : :Production: :	Stocks		:Targeted	:Targeted : Ending	: Ta	tual or rgeted mport uirements		ercial Capacity		s Quo l Aid eds
	: <u>1,000</u>	Tons	Kilograms	1,000	Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
RiceCon. 1981/82 Est. 1982/83 Est.	: : 12 : 13	0	93 93	36 37	0 0	24 24					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est.	: 183 : 170 : 186 : 188	0 0 0 0	506 460 506 506	183 170 198 201	0 0 0 0	0 0 12 13					
Total 2/ 1981/82 Est. 1982/83 Est.	: : : :	<u></u>	 	 		26 29	10 11	22 20	8	4 9	2 3
CONGO	: :										
1980/81 Prel. 1981/82 Est.	: 12 : 12 : 12 : 13 : 14	0 0 0 0	50 57 50 50	75 87 80 82	0 0 0 0	63 75 67 68					٠.
1981/82 Est. 1982/83 Est.	: 546 : 550 : 560 : 575	0 0 0 0	368 355 368 368	546 550 585 603	0 0 0 0	0 0 25 28					
	: : : :	 	 	 	<u></u>	77 79	24 26	65 84	20 28	12 0	4
DJIBOUTI 1/	: :										
1977/78-1980/81 1980/81 Prel. 1981/82 Est.	: 0 : 0 : 0 : 0	0 0 0	113 143 113 113	42 61 55 61	0 0 0	42 61 55 61	22 26	22 23	9 10	33 38	13 16
EGYPT	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 7,187 : 7,373 : 7,575 : 7,682	3,005 2,650 2,570 2,570	290 283	5/ 13,186 6/ 14,254 5/ 14,757 5/ 15,544	2,880 2,570 2,570 2,570	5,874 6,801 7,182 7,862	1,580 1,848	6,100 6,590	1,342 1,550	1,082 1,272	238 298
EQUATORIAL GUINEA	:										
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 0 : 0 : 0 : 0	0 0 0	13 12 13 13	3 3 3 3	0 · 0 0 0	3 3 3 3					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 85 : 87 : 89 : 91	0 0 0	352 350 352 352	85 87 90 92	0 0 0 0	0 0 1 1					

	·	Commodity	Troduction	, bisappear	tance, and	Trade Da		A	id Calcul	u c 1011	
Country, Commodity, and Year	:Actual or : : Forecast : :Production:	Stocks		:Targeted	:Targeted	: Targ	geted :		Capacity		s Quo l Aid eds
	: :1,000	Tons	Kilograms	1,000	O Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
EQUATORIAL GUINEACon.	:										
Total 2/ 1981/82 Est. 1982/83 Est.	: : :					3 3	2 2	0		3 3	2 2
ETHIOPIA 1/	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 3,874 : 3,850 : 4,150 : 4,155	333 332 214 330	134 129 134 134	7/ 4,204 8/ 4,301 7/ 4,203 7/ 4,316	291 214 330 350	288 333 169 181	37 42	88 71		81 110	18 25
GAMBIA	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 56 : 55 : 64 : 71	0 · · · · · · · · · · · · · · · · · · ·	157 143 157 157	91 86 97 110	0 0 0	35 31 33 39					
Pulses 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 102 : 75 : 80 : 85	0 0 0 0	103 66 103 103	102 - 75 64 66	0 0 0 0	$ \begin{array}{c} 0 \\ 0 \\ 3/ (16) \\ 3/ (19) \end{array} $					
Total 2/ 1981/82 Est. 1982/83 Est.	: : : : :	 	==		==	14 17	3 4	10 13		4 4	1 1
GHANA .	*										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 615 : 637 : 697 : 737	0 0 0 0	72 72 72 72	9/ 905 10/ 947 9/ 977 9/ 1,007	0 0 0 0	290 310 280 270					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 4,780 : 4,950 : 5,075 : 5,200	0 0 0 0	417 420 417 417	4,780 4,950 5,220 5,392	0 0 0 0	0 0 145 192					
Total 2/ 1981/82 Est. 1982/83 Est.	:	 	, 	 	 	314 319	125 136	173 184		141 135	56 58
GUINEA	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 545 : 532 : 545 : 560	51 42 35 35	130 130 130 130	675 704 723 743	47 35 35 35	126 165 178 183					
Cassava 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 544 : 545 : 550 : 555	0 0 0 0	105 101 105 105	544 545 584 601	0 0 0 0	0 0 34 46					

		Commodity	Production	, Disappear	ance, and	d Trade D	ata	:	Aid Calcul	ation	
	Actual or :: Forecast : Production:	Stocks	: Actual or : Targeted	:Targeted	:Targeted	d: Ta : I	tual or rgeted mport uirements		Capacity	: Food	s Quo Aid eds
	:1,000	ronge	Kilograms	1 000) Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
GUINEACon.	<u>1,000</u>	ions	KIIOgiams	1,000	Tolls	10115	DOTTALS	1005	DOTTALS	10115	DOTTALS
Total 2/ 1981/82 Est. 1982/83 Est.	 		 			192 201	53 59	31 33	8 9	161 168	45 50
GUINEA-BISSAU											
1982/83 Est.	: : 37 : 25 : 34 : 39	0 0 10 0	120 150 120 120	· 79 97 79 81	0 10 0 0	42 82 35 42					
Roots and Tubers 1977/78-1980/81 1981/82 Prel.	: 36 : 30 : 38 : 40	0 0 0 0	58 47 58 58	36 30 38 39	0 0 0 0	0 <u>3</u> / (1)					
Total 2/ 1980/81 Est. 1981/82 Est.						35 42	4 6	10 8	1 1	25 34	3 5
ISRAEL											
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	196 250 270 260	293 297 275 277	177 188 177 177	625 776 730 765	287 275 277 285	423 504 462 513	91 108	2,100 2,235	4,116 4,695	0	0
•	724 715 700 705	0 0 0 0	192 184 192 192	724 715 763 786	0 0 0 0	0 0 63 81	9 12	NA NA	NA NA	0 0	0
Soybean 0il 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : : 0 : 0 : 0	19 10 12 10	21 19 21 21	80 75 84 87	12 10	$\begin{array}{c cccc} $	75 87	NA NA	NA NA	0	0
Total 1981/82 Est. 1982/83 Est.	 	 	 	 			175 207		4,110 4,695		0
	: :										
1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 79 : 185 : 160 : 100	13 17 17 17	118 130 118 118	380 445 426 433	15 17 17 0	303 260 266 316	66 84	445 554	110 147	0	0
	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 2,289 : 2,114 : 2,470 : 2,540	519 81 46 240	155 161	12/ 2,776 13/ 2,564 12/ 2,785 12/ 2,908	304 46 240 250	272 415 509 378					
See footnotes at e	ind of table.									Co	ntinued

	:	Commodity	Production	, Disappea	rance, and	l Trade D	ata	:	Aid Calcul	ation	
	Actual or : Forecast : Production:	Stocks		:Targeted	:Targeted	: Tar	ual or geted mport uirements	: Comm	Capacity	: Food	ıs Quo 1 Aid eeds
	: <u>1,000</u>	Tons	Kilograms	<u>1</u> ,000	O Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
1980/81 Prel. 1981/82 Est.	: 1,298 : 1,342 : 1,365 : 1,385	0 0 0 0	84 82 84 84	1,298 1,342 1,432 1,488	0 0 0 0	. 0 . 0 . 67 . 103					•
Total 2/ 1981782 Est. 1982/83 Est.	: : : : :	==	Ξ.		==	532 410	138 114	53 52	14 14	479 358	124 100
LEBANON	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 53 : 49 : 49 : 49	176 180 161 180	151 156 151 151	$\begin{array}{c c} 14/ & 675 \\ \hline 15/ & 710 \\ \hline 14/ & 702 \\ \hline 14/ & 715 \end{array}$	168 161 180 180	614 642 672 666	148 157	648 489	143 115	24 177	5 42
<u>LESOTHO</u>	:								,		
/	: 212 : 163 : 221 : 245	0 0 0 0	252 261 252 252	326 348 345 354	0 0 0 0	114 185 124 109	23 22	105 113	19 22	19 0	4 0
LIBERIA	: :										
	: 174 : 174 : 181 : 185 : 190	15 24 21 20	145 1 51 145 145	255 279 2 7 5 284	19 21 20 20	85 95 89 94					
1981/82 Prel. 1981/82 Est. 1982/83 Est.	: 172 : 188 : 190 : 190	0 0 0 0	98 102 98 98	172 188 186 191	0 0 0 0	0 0 3/ (4) 1					
Total 2/ 1981/82 Est.	: : : :	==	<u></u>			88 94	41 47	69 75	32 37	19 19	9 10
MADAGASCAR	: :										
	: 1,454 : 1,632 : 1,530 : 1,585	0 0 0 0	201 222 201 201	1,662 1,897 1,765 1,809	0 0 0 0	208 265 235 224	85 86	189 180	68 69	46 44	17 17
MALAWI	:										
1000/01	: 1,188 : 1,100 : 1,300 : 1,330	0 0 0 0	212 203 212 212	1,229 1,224 1,319 1,359	0 0 0 0	41 124 19 29	5 8	15 15	4 4	4 14	1 4
See footnotes at e	end of table.									Con	tinued

:	: (Commodity	Production,	Disappear	ance, and	Trade Da	ta	:	: Aid Calculation :				
	: Forecast : :Production: :	Stocks	g:Per Capita :Actual or : Targeted : Intake	:Targeted	r:Actual o :Targeted : Ending : Stocks	: Ta	tual or rgeted mport uirements		ercial Capacity	: Food	ıs-Quo I Aid eeds		
	:					1,000	Million	1,000	Million	1,000	Million		
MALI	: <u>1,000</u>	Tons	Kilograms	1,00	O Tons	Tons	Dollars	Tons	Dollars	Tons	Dollars		
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 1,020 : 919 : 952 : 975	0 0 0 0	170 147 170 170	1,080 979 1,159 1,192	0 0 0 0	60 60 207 217	140 158	16 16	11 12	191 201	· 129 146		
MAURITANIA				•									
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est.	: 35 : 45 : 45 : 46	6 22 10 10	96 91 96 96	140 136 147 150	8 10 10 10	107 79 102 104	23 25	78 84	18 20	24 20	5 5		
MAURITIUS	: :												
1980/81 Prel. 1981/82 Est.	: : : 0 : 0 : 0	0 0 0 0	173 178 173 173	161 170 168 171	0 0 0 0	161 170 168 171	49 53	139 135	40 42	29 36	9 11		
MOROCCO	: :												
	: : 3,940 : 4,354 : 2,650 : 4,300	725 580 687 590	257 252	16/ 5,791 17/ 6,164 16/ 6,306 16/ 6,520	636 687 590 490	1,762 1,917 3,559 2,120	591 377	1,595 2,090	265 372	1,964 30	326 5		
MOZAMBIQUE	: :												
1980/81 Prel. 1981/82 Est.	: : 598 : 542 : 542 : 552	0 0 0 0	94 97 94 94	932 997 997 1,025	0 0 0 0	334 455 455 473							
Cassava 1977/78-1980/81 1981/82 Prel. 1981/82 Est. 1982/83 Est.	: 2,463 : 2,500 : 2,600 : 2,700	0 0 0 0	249 242 249 249	2,463 2,500 2,653 2,743	0 0 0 0	0 0 53 43							
Total 2/ 1981/82 Est. 1982/83 Est.	: : : :	 	Ξ	 	==	476 490	180 198	156 151	59 61	320 339	121 137		
NIGER	:												
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : : 1,604 : 1,810 : 1,810 : 1,816	0 0 0 0	316 337 316 316	1,665 1,855 1,787 1,838	0 0 0 0	61 45 <u>3/(23)</u> 22	(7) 7	44 42	13 13	0	0		
	:	-								Co	ntinued-		

	: (Commodity	Production,	Disappeara	ance, and	Trade Da	ta	:	Aid Calcul	ation	
Country, Commodity, and Year		Stocks	:Actual or		:Targeted : Ending	: Ta : I	tual or rgeted mport uirements		ercial Capacity	Food	s Quo l Aid eds
	: :1,000	Tons	Kilograms	1.000) Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
RWANDA 1/	: 1,000	10115	TITO BI GILD	2,00	20113	10110	DOTTUTE	10110	DOTTUTO	10113	DOTTALS
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 249 : 258 : 269 : 269	0 0 0 0	53 53 53 53	260 270 281 290	0 0 0 0	11 12 12 21					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 3,182 : 3,362 : 3,440 : 3,500	0 0 0 0	652 657 652 652	3,182 3,362 3,441 3,552	0 0 0 0	0 0 1 52			•		
Total 2/ 1981/82 Est. 1982/83 Est.	: : :	 			==	12 35	11 35	9 8	8 8	3 27	3 27
SENEGAL	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 663 : 625 : 681 : 703	75 68 68 68	172 164 172 172	942 931 1,006 1,033	73 68 68 68	277 306 325 330					
Groundnuts 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 675 : 450 : 600 : 650	5 20 0 0	9 7 9 9	18/ 51 18/ 40 18/ 55 18/ 56	5 0 0 0	15 0 4/7 <u>4</u> /4	2 2				
Total 2/ 1981/82 Est. 1982/83 Est.	: : : :		 	 	==	335 336	98 106	316 329	93 104	19 7	5 2
SIERRA LEONE	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 334 : 320 : 325 : 325	0 0 0 0	124 111 124 124	406 375 429 438	0 0 0 0	72 55 104 113					
Roots and Tubers 1977/78-1980/81 1981/82 Prel. 1981/82 Est. 1982/83 Est.	: 634 : 650 : 660 : 660	0 0 0 0	194 192 194 194	634 650 669 684	0 0 0 0	0 0 9 24					
Total 2/ 1981/82 Est. 1982/83 Est.	: : : : :	 	Ξ	<u></u>	==	108 123	4 9 60	44 46	20 22	64 77	29 38
SOMALIA 1/	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 230 : 232 : 232 : 232	20 20 80 50	123 119 123 123	19/ 480 19/ 563 19/ 615 19/ 628	20 80 50 50	250 391 353 396	267 32 0	6 8	4 6	347 388	263 314
See footnotes at e	nd of table.	-								Con	tinued

	: Co	ommodity I	Production,	Disappearar	nce, and Tr	ade Data		:	Aid Calcul	ation	
Country, Commodity, and Year		Stocks	g:Per Capita :Actual or : Targeted : Intake	:Targeted	:Targeted : Ending	: Tar	ual or geted port irements		Capacity		s Quo Aid eds
SOMALIACon.	: :1,000	Tons	Kilograms	1,00	00 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
Milk	: :										
1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 716 : 654 : 700 : 712	0 0 0 0	198 141 198 198	716 654 979 996	0 0 0 0	0 0 279 284	17 18	23 31	1 2	256 253	16 16
Total 1981/82 Est. 1982/83 Est.	: : :	 	 	 	==		284 338	 	5 8		279 330
SUDAN 1/	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,938 : 2,790 : 3,175 : 3,290	222 219 219 226	171 159	20/ 3,250 21/ 3,170 20/ 3,600 20/ 3,718	219 219 226 226	309 380 432 428	147 156	75 50	26 18	357 378	121 138
Groundnut Oil 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 115 : 110 : 100 : 115	12 12 12 12	6 6 5 6	100 100 109 113	12 12 12 12	(15) (10) 9 (2)	9 (2)	1 1	1 1	8 0	8
Total 1981/82 Est. 1982/83 Est.	: : : :	 	 	 	 		156 156		27 19		129 137
SWAZILAND	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 69 : 69 : 99 : 102 : 97	0 0 0 0	211 248 211 211	112 138 121 124	0 0 0 0	43 39 19 27	5 7	70 75	17 20	0 0	0
Milk 1977/78-1980/81	: : 36	0	75	42	0	4					
1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 37 : 38 : 38	0 0	66 75 75	44 44 46	0 0	6 7 6 8	3 4	NA NA	NA NA	0	0
Total 1981/82 Est. 1982/83 Est.	: : :						8 11		17 20		0
SYRIA ·	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,207 : 2,207 : 3,250 : 2,650 : 2,650	1,355 1,112 2,176 1,682	257 256	$\frac{22}{23}$ / 2,801 $\frac{23}{22}$ / 2,891 $\frac{22}{2}$ / 2,936 $\frac{22}{2}$ / 3,018	1,474 2,176 1,682 1,682	713 705 (208) 368	<u>3</u> / 0 111	472 496	119 135	0	0
	:	_,									
TANZANIA	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 1,466 : 1,258 : 1,362 : 1,414	117 38 34 136	88 92	24/ 1,663 25/ 1,646 24/ 1,779 24/ 1,834	103 34 136 136	183 384 519 420					
See footnotes at e	nd of table.									Со	ntinued

NUMBER Section Secti		: :	Commodity	Production,	Disappeara	ince, and	Trade Da	ta	:	Aid Calcul	ation	
ACADIAL Con. : ACADIAL Con. :	and Year	: Forecast :Productio	: Stocks	:Actual or : Targeted	:Targeted : Usage	:Targete : Ending	d: Ta : I	rgeted mport	: Import	Capacity	: Foo	d Aid
ANDMANLA—Con. *** *** *** *** *** *** *** *** ***		:			1 000				-		•	Million
1977/78-1980/81 : 4,338 0 234 4,338 0 0 1981/82 Eat. : 4,000 0 251 4,500 0 0 1981/82 Eat. : 4,000 0 254 4,681 0 81 7 1982/83 Eat. : 4,000 0 254 4,681 0 81 7 1982/83 Eat. : 4,000 0 254 4,681 0 81 7 1982/83 Eat. : 0 460 127 21 6 439 121 0000 ajor Careals	TANZANIACon.	: <u>1,00</u> :	U Tons	Kilograms	1,000	Tons	Tons	Dollars	Tons	Dollars	Tons	Dollars
1981/82 Prel. : 4,500 0 251 4,500 0 0 158/82 Ext. : 4,600 0 254 4,861 0 81 7 1982/83 Ext. : 4,700 0 254 4,861 0 81 7 1982/83 Ext. : 4,700 0 254 4,861 0 81 7 1982/83 Ext. : 4,700 0 254 4,861 0 81 7 1982/83 Ext. : 0 545 141 19 5 526 136 1982/83 Ext. : 0 460 127 21 6 439 121 600 600 600 600 600 600 600 600 600 6	Cassava 1977/78 - 1980/81	: 4,338	0	254	4,338	0	0					
1982/83 Est. 4,700 0 234 4,926 0 226 11		: 4,500			4,500							
1981/32 Est.												
1982/83 Est. 0 460 127 21 6 439 121	Total 2/	: :										
a for Cereals		: :										136 121
1977/78-1980/8 : 268	TOGO	: :										
1980/8 Prel. 263	Major Cereals	:	•		• • •		0.4					
1981/82 Est.												
1971/78-1980/81 867	•											
1977/78-1980/81 : 867	1982/83 Est.	: 298 :	0	120	334	0	36					
1980/81 Prel. 958	Roots and Tubers	: · 867	0	345	867	~ 0						
1982/83 Est. : 975 0 345 959 0 3/2 (16) cotal 2/												
1981/82 Est. 1							$\frac{3}{3}$ (34).					
1981/82 Est. : 30		:		0.0	201	·	<u>=</u> , (==)					
CONTINENTA		· :					30	10	37	12	0	0
	1982/83 Est.	:					32	11	47	16	0	0
1977/78-1980/81 : 943 249 220 26/ 1,698 241 747 1980/81 Prel. : 1,203 265 242 27/ 1,988 230 750 1981/82 Est. : 1,300 230 220 26/ 1,761 250 481 96 740 147 0 0 1982/83 Est. : 1,125 250 220 26/ 1,852 250 727 155 760 162 0 0 GANDA 1/ (a jor Cereals : 1977/78-1980/81 : 1,430 0 113 1,470 0 40 1981/82 Est. : 1,400 0 113 1,590 0 190 190 1982/83 Est. : 1,450 0 113 1,654 0 204 1982/83 Est. : 1,450 0 113 1,654 0 204 1982/83 Est. : 5,721 0 440 5,721 0 0 0 190 190 1980/81 Prel. : 5,916 0 432 5,916 0 0 1980/81 Prel. : 5,916 0 432 5,916 0 0 0 1982/83 Est. : 6,040 0 440 6,179 0 139 1982/83 Est. : 6,040 0 440 6,427 0 374 1982/83 Est. : 6,053 0 440 6,427 0 374 1981/82 Est. : 6,040 1 4 178 0 0 14 187 0 0 0 1980/81 Prel. : 187 0 14 187 0 0 0 1980/81 Prel. : 187 0 14 187 0 0 0 1980/81 Prel. : 187 0 14 187 0 0 0 1981/82 Est. : 190 0 14 192 0 2 1982/83 Est. : 200 0 14 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TUNISIA	: :										
1977/78-1980/81 : 943 249 220 26/ 1,698 241 747 1980/81 Prel. : 1,203 265 242 27/ 1,988 230 750 1981/82 Est. : 1,300 230 220 26/ 1,761 250 481 96 740 147 0 0 1982/83 Est. : 1,125 250 220 26/ 1,852 250 727 155 760 162 0 0 GANDA 1/ (a jor Cereals : 1977/78-1980/81 : 1,430 0 113 1,470 0 40 1981/82 Est. : 1,400 0 113 1,590 0 190 190 1982/83 Est. : 1,450 0 113 1,654 0 204 1982/83 Est. : 1,450 0 113 1,654 0 204 1982/83 Est. : 5,721 0 440 5,721 0 0 0 190 190 1980/81 Prel. : 5,916 0 432 5,916 0 0 1980/81 Prel. : 5,916 0 432 5,916 0 0 0 1982/83 Est. : 6,040 0 440 6,179 0 139 1982/83 Est. : 6,040 0 440 6,427 0 374 1982/83 Est. : 6,053 0 440 6,427 0 374 1981/82 Est. : 6,040 1 4 178 0 0 14 187 0 0 0 1980/81 Prel. : 187 0 14 187 0 0 0 1980/81 Prel. : 187 0 14 187 0 0 0 1980/81 Prel. : 187 0 14 187 0 0 0 1981/82 Est. : 190 0 14 192 0 2 1982/83 Est. : 200 0 14 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Major Cereals	:										
1981/82 Est. : 1,300 230 220 26/ 1,761 250 481 96 740 147 0 0 0 1982/83 Est. : 1,125 250 220 26/ 1,852 250 727 155 760 162 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
1982/83 Est. : 1,125				242	$\frac{27}{36}$ / 1,988			0.6	740	1 / 7	0	0
Stajor Cereals 1977/78-1980/81 1,430 0 113 1,470 0 40 1980/81 Prel. 1,300 0 113 1,590 0 190 1982/83 Est. 1,450 0 113 1,590 0 190 1982/83 Est. 1,450 0 113 1,654 0 204 Est. 1977/78-1980/81 5,721 0 0 0 0 0 0 0 0 0				220	$\frac{26}{26}$ / 1,852							0
1977/78-1980/81 : 1,430	JGANDA 1/	: :										
1980/81 Prel. : 1,300	Major Cereals	: :										
1981/82 Est. : 1,400												
1982/83 Est. : 1,450												
1977/78-1980/81 : 5,721												
1980/81 Prel. : 5,916	Roots and Tubers	:	_	110	5 70-		_					
1981/82 Est. : 6,040											•	
1982/83 Est. : 6,053	1981/82 Est.			440			139					
1977/78-1980/81 : 178	1982/83 Est.	: 6,053 :	0	440	6,427	0	374					
1980/81 Prel. : 187	Dry Beans 1977/78-1980/81	: 178	0	14	178	0	0					
1981/82 Est. : 190 0 14 192 0 2 1982/83 Est. : 200 0 14 200 0 0 :: Cotal 2/ : 1981/82 Est. : 244 42 6 1 238 41												
: : : : : : : : : : : : : : : : : : :	1981/82 Est.	: 190		14	192							
1981782 Est. : 244 42 6 1 238 41	1982/83 Est.	: 200 :	0	14	200	0	0					
	Total 2/ 1981782 Est.	:			,		244	42	6	1	238	41
		:										61

	Cor	nmodity 1	Production,	Disappeara	nce, and T	rade Data	a	:	Aid Calcul	ation	
	: Actual or : : Forecast : :Production: :			:Targeted		: Ta	tual or rgeted mport uirements		ercial Capacity	: Foo	cus Quo od Aid Jeeds
	1,000	Гол <i>а</i>	Kilograms	1 00	0 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars		Million
JPPER VOLTA	1,000	TOILS	KIIOGIAMS	1,00	<u> </u>	10115	DOTTATS	10115	DOTTALS	Tons	Dollars
lajor Cereals											
	: 1,111	0	173	1,140	0	29					
1980/81 Prel.	1,130	0	168	1,145	0	15					
	: 1,178	0	173	1,207	0	29	13	25	11	. 4	2
1982/83 Est.	: 1,178 :	0	173	1,234	0	56	27	24	12	32	15
EMEN AR											
ajor Cereals											
1977/78-1980/81	: 811	25	227	28/ 1,287	25	476					
1980/81 Prel.	: 820	25	226	29/1,322	25	502					
1981/82 Est.	: 981	25	227	28/1,365	25	384	92	400	94	0	0
1982/83 Est.	: 938 ·	25	227	28/ 1,416	25	478	119	375	93	103	26
EMEN PDR											
ajor Cereals	•										
1977/78-1980/81	: 87	94	101	30/ 215	117	151					
1980/81 Prel.	: 87	145	101	30/ 213	139	120					
1981/82 Est.	: 88	139	101	30/ 208	135	116	35	169	51	0	0
1982/83 Est.	: 87	135	101	<u>30</u> / 213	130	121	39	185	59	0	0
AIRE 1/											
ajor Cereals	• •										
1977/78-1980/81	: 709	30	31	876	33	170					
1980/81 Prel.	720	48	31	915	43	190					
1981/82 Est.	: 736	43	31	937	45	203					
1982/83 Est.	: 753 :	45	31	974.	45	221					
Cassava	; ;										
1977/78-1980/81	: 11,806	0	417	11,806	0						
	: 12,200	0	416	12,200	0						
1981/82 Est.	: 12,403	0	417	12,626		2/ 223					
·	: 12,609 :	0	417	13,131	0	<u>2</u> / 522					
Total <u>2</u> /											
1981/82 Est.	:					281	73	181	47	100	26
1982/83 Est.	:					403	113	192	54	211	59
ZAMBIA 1/	•										
Major Cereals	:										
1977/78-1980/81	: 527	117	134	31/ 787	90	233					
1980/81 Prel.	: 359	19	119	32/ 719	64	405					
1981/82 Est.	: 715	64	134	31/ 842	83	146	32	128	28	18	4
1982/83 Est.	: 756	83	134	31/ 873	85	119	28	125	30	0	0

Parentheses imply export availability.
Data quoted on a local marketing-year basis.

1/ Adjusted for refugee influx or outflow. 2/ Cereal equivalent. 3/ Targeted export availability only; does not imply actual export. 4/ Targeted import requirement only; does not imply actual importation. 5/ Includes feed use of 1,703,000 tons for 1977/78-1980/81 2,444,000 for 1981/82, and 2,852,000 tons for 1982/83. 6/ Includes feed use of 20,000 tons for 1980/81, and 22,000 tons for 1981/82 and 1982/83. 8/ Includes feed use of 20,000 tons for 1980/81. 9/ Includes feed use of 69,000 tons for 1977/78-1980/81, and 22,000 tons for 1981/82 and 1982/83. 10/ Includes feed use of 70,000 tons for 1980/81. 11/ Includes oil from imported soybeans. 12/ Includes feed use of 56,000 tons for 1977/78-1980/81, 32,000 tons for 1981/82, and 45,000 tons for 1982/83. Also include adjustment of 226,000 tons for losses in marketing channels. 13/ Includes feed use of 15,000 tons for 1980/81. 14/ Includes feed use of 235,000 tons. 15/ Includes feed use of 240,000 tons. 16/ Includes feed use of 870,000 tons 1977/78-1980/81, 1,019,000 tons for 1981/82, and 1,075,000 tons for 1982/83. 17/ Include feed use of 933,000 tons for 1980/81. 18/ Indicates consumption as groundnuts only. Bulk of production crushed and consumed or exported as oil. 19/ Includes feed use of 10,000 tons. 20/ Includes feed use of 195,000 tons in 1977/78-1980/81, 187,000 tons in 1981/82, and 197,000 tons in 1982/83. 21/ Includes feed use of 187,000 tons for 1980/81. 24/ Includes feed use of 68,000 tons in 1977/78-1980/81. 25/ Includes feed use of 135,000 tons for 1981/82, 348,000 tons for 1982/83. 27/ Includes feed use of 128,000 tons for 1981/82, and 165,000 tons for 1982/83. 29/ Includes feed use of 138,000 tons for 1981/82, 348,000 tons for 1982/83. 30/ Includes feed use of 11,000 tons for 1982/83. 30/ Includes feed use of 138,000 tons for 1981/82, 348,000 tons for 1981/82, and 42,000 tons for 1981/82, and 165,000 tons for 1982/83. 30/ Includes feed use of 138,000 tons for 1981/82, 348,000 tons for 1981/82, and 42,000 tons for 1981/82, and 165,000 tons for 1982/83.

	: Co	ommodity Ava: and	ilability, Trade Dat		arance, :		Aid Calcul	ation		: Commodit	y and
Country,Commodity, and Year	:Avail-	: Targeted : Intake	:Targeted:	Impo		Commercia Capac	: il Import : ity :	Nutrition Food Need	Aid	: Share of : Per Cap : Caloric I : (1975-	ita ntake
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
ANGOLA	:									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: 270 : 324	63 64	635 655	365 331						: :Wheat :Rice :Corn :Cassava	7.3 3.2 21.1 30.6
Cassava 1981/82 Est. 1982/83 Est.	: : 1,750 : 1,800	280 281	1,910 1,940	160 140						: Total : :	62.2
Total 3/ 1981/82 Est. 1982/83 Est.	: : :	 		427 386	111 107	200 225	52 62	227 161	59 45	: :	
BENIN	:									: :	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 384 : 393	117 117	417 428	33 35						:Wheat :Rice :Corn :Sorghum	2.3 2.9 23.9 6.5
Roots and Tubers 1981/82 Est. 1982/83 Est.	: 1,430 : 1,455	324 324	1,364 1,392	(66) (63)						:Cassava :Yams : Total	20.4 12.0 68.0
Total 3/ 1981/82 Est. 1982/83 Est.	:			7 10	2 3	14 9	4 2	0 0	0 0	:	
BURUNDI	:									: :	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 416 : 421	100 100	448 459	32 38						:Wheat :Corn :Sorghum	1.2 20.6 9.6
Roots and Tubers 1981/82 Est. 1982/83 Est.	: : 1,915 : 1,930	405 403	1,880 1,938	(35) (8)						:Millet :Cassava :Sweet : Potatoes : Total	.6 12.7 18.4 63.1
Total <u>3/</u> 1981/82 Est. 1982/83 Est.	:	 		20 33	14 24	2 1	1 1	18 32	13 23	: : : : : : : : : : : : : : : : : : :	03.1
CAMEROON	:									: :	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 921 : 927	116 116	1,100 1,120	179 193						: :Wheat :Rice :Corn	3.5 2.7 13.5
Roots and Tubers <u>4</u> / 1981/82 Est. 1982/83 Est.	: 2,450 : 2,480	251 250	2,409 2,457	(41) (23)						:Millet :Cassava :Yams :Plantains :Groundnuts : Total	13.2 8.6 3.1 8.0 10.2 62.8
Groundnuts 1981/82 Est. 1982/83 Est.	: : 94 : 95	26 24	238 243	144 148						: : :	
Total 3/ 1981/82 Est. 1982/83 Est.	:		 	350 379	104 118	155 173	46 54	195 206	58 64	: : : :	

	: Cor	nmodity Avai	lability, Data		rance,		Aid Calcul	lation		: Commodi	tv and
	:Avail- :ability : 1/	:Per Capita : Targeted : Intake	: Total : :Targeted:	Targ Imp	eted : oort : rement :	Commerci Capa	al Import : city :	Nutriti Food		: Share of : Per Ca : Caloric : (1975-	Daily apita Intake
	: 1,000 : <u>Tons</u>	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity :	Percent
Major Cereals 1981/82 Est. 1982/83 Est.	: : 7 : 7	143 143	49 50	42 43	7 7	8 7	. 1	34 36	6 6	: :Wheat :Rice :Corn : Total	4.6 3.8 43.3 51.7
CENTRAL AFRICAN REPUBLIC	: : :									: : :	
Major Cereals 1981/82 Est. 1982/83 Est.	82 85	50 50	117 124	35 39						:Wheat :Corn :Millet :Cassava	3.1 38.0 5.7 7.3
	: : 1,210 : 1,235	522 521	1,310 1,345	100 110						:Yams :Cocoyams : Total	$\begin{array}{r} 8.4 \\ \underline{2.3} \\ \overline{64.8} \end{array}$
Total 3/ 1981/82 Est. 1982/83 Est.	: : :	· 		73 81	31 37	5 5	2 2	68 76	29 35	: : :	
CHAD	: :									:	
1981/82 Est. 1982/83 Est.	: : 776 : 778	183 182	1,027 1,058	251 280						:Wheat :Rice :Corn :Millet	1.8 3.4 1.5 49.6
Cassava 1981/82 Est.	180 180	50 50	244 253	64 73						:Cassava : Total	5.9
Total 3/ 1981/82 Est. 1982/83 Est.	: : :	 		277 309	82 98	5 7	1 2	272 302	81 96	: : :	
COMOROS	: :									: :	
Rice 1981/82 Est. 1982/83 Est.	: : 12 : 13	74 74	28 30	16 17						:Rice :Cassava :Bananas : Total	29.2 25.2 13.6 68.0
Roots and Tubers <u>5</u> / 1981/82 Est. 1982/83 Est.	: : 186 : 188	512 507	213 221	27 33						: : : : : : : : : : : : : : : : : : :	00.0
Total 3/ 1981/82 Est. 1982/83 Est.	: : : :		==	25 27	9 10	22 20	8 8	3 7	1 2	: : :	
CONGO	• • •									: :	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 13 : 14	40 40	64 66	51 52						:Wheat :Corn :Cassava	9.2 4.4 50.6
Cassava 1981/82 Est. 1982/83 Est.	: : 560 : 575	398 398	635 653	75 78						: Total : : :	64.2
Total 3/ 1981782 Est. 1982/83 Est.	 	==		81 83	25 28.	65 84	20 28	16 0	5 0	: : :	
See footnotes at	end of ta	able.								Con	tinued

	: Cor	nmodity Avai	lability, Trade Data		rance,	:	Aid Calcul	ation		: Commodit	
	:Avail-	:Per-Capita : Targeted : Intake	: Total :: Targeted:	Tar Im	geted port irement			Nutriti Food	on-Based Aid eds	: Share of : Per Cap : Caloric 1	Daily Dita Intake
	: 1,000 : <u>Tons</u>	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
DJIBOUTI 6/	:									:	
EGYPT Major Cereals	: : :									: :Wheat :Rice :Corn	31.7 11.1 19.0
	: 7,575 : 7,682 :	220 219	12,045 12,363	4,470 4,681	983 1,100	6,100 6,590	1,342 1,550	0	0	:Sorghum : and Mille : Total	4.6 66.4
EQUATORIAL GUINEA	: : :									:	
ETHIOPIA	: :									:	
	: 4,034 : 4,135 :	190 190	5,930 6,020	1,896 1,885	412 439	88 71	. 19 . 17	1,810 1,813	393 422	:Wheat :Corn :Sorghum :Millet :Barley :Tef	10.6 18.3 12.2 3.1 8.5 16.3
GAMBIA	: : :									: Total : :Wheat	69.0
Major Cereals 1981/82 Est. 1982/83 Est.	: : : 64 : 71	163 163	116 125	52 54						:Rice :Corn :Millet :Groundnuts	35.9 3.5 16.1 5 6.7
Groundnuts 1981/82 Est. 1982/83 Est.	: : 80 : 85	7 9 81	4 9 52	(31) (33)						: Total : :	64.6
Total 3/ 1981782 Est. 1982/83 Est.	: : : :	==	Ξ	16 15	4 4	10 13	2 3	6 2	2 1	:	
GHANA	:									:	
	: : 697 : 737	81 81	1,051 1,089	. 354 352						: :Wheat :Rice :Corn :Sorghum	4.4 2.6 3.2 4.0
	: : 5,075 : 5,200	437 437	5,575 5,750	500 550						:Millet :Cassava :Cocoyams :Plaintains	3.1 18.9 11.4
Total 3/ 1981/82 1982/83	: : :	==		558 575	223 246	173 184	69 78	385 391	154 168	: Total	68.9
GUINEA	:										
	: 545 : 560	152 153	8 95 9 20	350 360						:Wheat :Rice :Corn :Cassava	2.2 29.3 21.1 11.5
Cassava 1981/82 1982/83	: : 550 : 555	108 107	655 670	105 115						: Total	64.1
Total 3/ 1981/82 Est. 1982/83 Est.	: : :			3 9 5 410	109 122	31 33	8 9	362 375	101 113	:	
See footnotes at	end of t	able.								•	ntinued

	: Co	ommodity Avai	lability, Trade Data		rance, :		Aid Calcu	lation		: Commodit	y and
	:Avail-	:Per Capita: : Targeted : : Intake :	Total : Targeted:	Targe Impo Requir	ort :	Сара		Nutriti Food Nee		: Share of : Per Cap : Caloric I : (1975-	Daily oita Intake
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
GUINEA-BISSAU	: :								٠.	:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 44 : 39	129 129	85 87	41 48						:Rice :Corn :Sorghum :Roots and	42.2 7.1 2.8
Roots and Tubers 1981/82 Est. 1982/83 Est.	: : 38 : 40	60	39 41	1 1						: Tubers : Total :	6.9 59.0
Total 3/ 1981/82 Est. 1982/83 Est.	: : : :	==	Ξ	42 49	6 7	10 8	1	32 41	5 6	:	
ISRAEL	: :									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: 268 : 252	127 126	530 540	262 288	51 60	2,100 2,235	4,116 4,695	0 0	0	:Wheat :Rice :Soybean Oi :Milk, Cow	31.8 1.9 i1 12.7 8.0
Milk, Cow 1981/82 Est. 1982/83 Est.	: : 700 : 705	151 151	610 625	(90) (80)	(13) (12)	NA NA	NA NA	0	0	: Total : : : :	54.4
Soybean Oil 1981/82 Est. 1982/83 Est.	: : 2 : 0	13 13	53 55	51 55	46 55	NA NA	NA NA	0	0 0	:	
Total 1981/82 Est. 1982/83 Est.	: : :		 		84 103		4,116 4,695		0 .	:	
JORDAN	: :									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : : 160 : 117	177 170	611 608	451 491	112 131	445 554	110 147	6 0	2 0	: :Wheat :Rice : Total :	55.0 5.3 60.3
KENYA	: :									:	
	: : 2,276 : 2,530	199 205	3,450 3,740	1,174 1,210			ş · · ·			: :Wheat :Rice :Corn :Sorghum	4.6 .8 44.4 4.2
	: 1,365 : 1,385	90 89	1,538 1,600	173 215						:Millet :Cassava :Potatoes :Sweet-	2.4 5.7 1.6
Total 3/ 1981/82 Est. 1982/83 Est.	: : :	 		1,236 1,290	320 356	53 52	14 14	1,183 1,238	306 342	: potatoes : Total :	1.8 65.5
LEBANON	:									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 30 : 49 :	184 183	580 585	550 536	121 127	648 489	143 115	0 47	0 12	: :Wheat :Rice :Corn :Barley :Sugar : Total	50.3 2.4 .4 .1 10.1 63.3
See footnotes at en	: id of tab	le.									ntinued

	:		Trade Data		arance :		Aid Calcul	ation		: Commodi	ty and
	:Avail- :ability : l/	: Targeted : : Intake :	Targeted:	Targo Impo Requi		Capa	al Import :			: Share of : Per Ca : Caloric : (1975	Daily pita Intake
LESOTHO	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
Major Cereals 1981/82 Est.	: : 221 : 245	241 244	345 358	124 113	23 22	105 113	19 22	19 0	4 0	: :Wheat :Corn :Sorghum : Total	26.3 36.0 13.5 75.8
LIBERIA	: :									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 186 : 190	117 117	222 228	36 38						:Wheat :Rice :Cassava : Total	2.3 42.1 21.0 65.4
Cassava 1981/82 Est. 1982/83 Est.	: : 190 : 190	161 161	306 315	116 125						: 10ta1 :	03.4
Total 3/ 1981782 Est. 1982/83 Est.	: : : :	 		76 82	35 41	69 75	32 37	7 7	3 4	: : :	
MADAGASCAR	: :									:	
	: : 1,530 : 1,585	187 187	1,710 1,760	180 175	66 67	189 180	68 69	0 0	0 0	:Wheat:Rice:Corn:Total	1.9 57.2 4.4 63.5
MALAWI	: :									: :	
	: 1,300 : 1,330	217 217	1,414 1,455	115 125	29 35	15 15	4 4	99 110	25 31	:Wheat :Corn : Total	$\frac{1.2}{64.9}$ $\overline{66.1}$
MALI	: :									:	
1981/82 Est.	: : 952 : 975	217 217	1,487 1,532	535 5 57	363 404	16 16	11 12	519 541	352 392	: :Wheat :Rice :Corn :Millet	2.0 10.8 5.5 53.5
MAURITANIA	: :									: Total	71.8
Major Cereals 1981/82 Est. 1982/83 Est.	: 45 : 46 : 46 :	150 150	231 236	186 190	42 46	78 84	18 20	108 106	26	:Wheat :Rice :Corn :Millet :Sorghum : Total	10.8 11.0 3.0 27.4 1.5 53.7
MAURITIUS	: :									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 0 : 0	137 137	133 135	133 135	39 42	139 135	40 42	0 0	0 0	:Wheat :Rice : Total	21.1 30.8 51.9
MOROCCO	: :									:	
	: 2,747 : 4,400	230 244	5,463 6,325	2,716 1,925	451 342	1,595 2,090	265 372	1,121	186 0	: :Wheat :Corn :Barley : Total	43.1 5.1 17.8 66.3
See footnotes at	:	able.								:	ntinued

	: Cor	mmodity Avai	lability, D Trade Data	isappear	ance,		Aid Calcui		: Commodit	v and	
	:Avail-			Targe Impo Requi	ort :		: cal Import : city :		on-Based Aid ds	: Share of : Per Cap : Caloric I : (1975-	Daily ita ntake
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
MOZAMBIQUE	:									:	
Major Cereals 1981/82 Est. 1982/83 Est	: : 542 : 552	107 107	1,145 1,180	603 628						:Wheat :Rice :Corn :Sorghum	5.0 3.5 19.0
	: 2,600 : 2,700	289 289	3,205 3,315	605 615		\				:Millet :Cassava : Total	$\frac{36.1}{9.4}$ $\frac{73.3}{73.3}$
Total 3/ 1981/82 1982/83	: :	 		845 876	319 355	156 151	59 61	689 72 5	260 294	: :	
NIGER	: :									: :Wheat	1.3
	: : : 1,810 : 1,816	287 285	1,660 1,699	(150) (117)	(45) (38)	44 42	13 13	0	0	:Rice :Sorghum :Millet : Total	2.0 16.1 46.5 65.9
RWANDA	: :									: :	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 269 : 269	53 53	285 292	16 23						: Wheat :Corn :Sorghum	.8 5.5 10.8 10.5
	: : 3,440 : 3,500	672 670	3,550 3,650	110 150						:Cassava :Sweet- : potatoes :Plantains : Total	15.5 26.6 69.7
Total 3/ .1981782 Est. 1982/83 Est.	: : :	<u></u> 	 	48 69	44 68	9 8	8 8	39 61	36	: :	
SENEGAL	•									:Wheat :Rice	9.8 23.7
Major Cereals 1981/82 Est. 1982/83 Est.	681 703	208 208	1,213 1,245	532 542						:Corn :Sorghum an : Millet	4.4 d 24.2
Groundnuts 1981/82 Est. 1982/83 Est.	600 650	104 109	606 654	6 4						:Groundnuts : Total :	66.7
Total 3/ 1981/82 Est. 1982/83 Est.	: : : :		==	541 549	159 173	316 329	93 104	225 220	66 6 9	· : :	
SIERRA LEONE	: :									: :	
	: : 325 : 325	115 115	398 406	73 81						: :Wheat :Rice :Cassava : Total	2.6 42.6 21.4 66.6
Cassava 1981/82 Est. 1982/83	660 660	173 173	597 609	(63) (51)						: 10ta1 : :	
Total 3/ 1981/82 Est. 1982/83 Est.	: :		==	48 61	22 30	44 46	20 22	4 15	2 8	:	
See for footnotes	at end	of table.								Con	tinued

	: Con	nmodity Avai	lability, D Trade Data	isappeara	ance :		Aid Calcu		: Commodit	v and	
	: Gross :Avail- :ability : 1/	:Per Capita : Targeted : Intake	: Total : :Targeted:	Targe Impor Require	rt :	Commerica Capac	: al Import :	Nutriti Food	on-Based	: Share of : Per Cap : Caloric I : (1975-	Daily ita Intake
	: : 1,000 : <u>Tons</u>	Kilograms	1,000 Tons	1,000 Tons	Million Dollars		Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
SOMALIA	: :									: :Wheat :Rice	3.6 2.7
Major Cereals 1981/82 Est. 1982/83 Est.	: : 232 : 232	108 108	533 542	301 310	227 250	6 8	4 6	295 302		:Corn :Sorghum :Milk, all : Total	17.5 16.3 20.2 60.3
Milk, all 1981/82 Est. 1982/83 Est.	: 700 : 712	232 232	1,146 1,167	446 455	27 29	23 31	1 2	423 424	26 27	; : :	
Total 1981/82 Est. 1982/83 Est.	: : :	==	. ==	==	254 279	==	5 8	==	249 271	:	
SUDAN	: :									: :Wheat :Rice	8.9
Major Cereals 1981/82 Est. 1982/83 Est.	: : 3,168 : 3,290	174 173	3,543 3,745	375 455	127 166	75 50	26 18	300 405	101 148	:Corn :Sorghum :Millet :Groundnut	1.0 36.1 9.6
	: : 100 : 115	7 7	130 135	30 20	29 22	1 1	1 1	29 19	28 21	: 0il : Total :	6.7 62.5
Total 3/ 1981/82 Est. 1982/83 Est.	: : : :	 	 	 	156 188	 	27 19		129 169	: : :	
SWAZILAND	:									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 102 : 97	157 155	90 92	(12) (5)	(3) (1)	70 75	17 20	0 0	0 0	: Corn :Sorghum :Milk, Cow : Total	50.1 1.0 4.9 56.0
Milk, Cow 1981/82 Est. 1982/83 Est.	: : 38 : 38	74 74	43 44	5 6	0 0	NA NA	NA NA	0	0 0	:	
Total 3/ 1981/82 Est. 1982/83	: : :	 	<i>y</i> ==		(3) (1)		17 20	==	0 0	: : :	
SYRIA	:									: :Wheat :Rice	47.4 3.2
Major Cereals 1981/82 Est. 1982/83 Est.	: : 3,144 : 2,650	199 195	2,860 2,655	(284) 5	(72) 1	472 496	119 135	0 0	0 0	:Barley : Total	55 51.1
TANZANIA	:									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: 1,260 : 1,414	126 124	2,360 2,400	1,100 986						:Wheat :Rice :Corn	2.7 3.9 24.0 3.0
Cassava 1981/82 Est. 1982/83 Est.	: 4,600 : 4,700	269 268	5,005 5,155	405 455						:Sorghum :Millet :Cassava : Total	2.2 24.1 59.9
Total 3/ 1981782 Est. 1982/83 Est.	: :	 		1,232 1,129	319 313	19 21	5 6	1,213 1,108	314 307	:	
See footnotes at		able.								Cor	ntinued

	:	and 7	lability, D Trade Data		:		Aid Calcul			: Commodit	
	Avail-	: Targeted : Intake	Targeted:	Targe Impe Requi		Commeric Capa	al Import : city :	Nutrition Food Nec		: Share of : Per Cap : Caloric I : (1975-	ita ntake
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity :	Percen
Major Cereals 1981/82 Est. 1982/83 Est.	283 298	136 136	367 379	84 81						: :Wheat :Rice :Corn :Millet	1.8 3.7 19.4 14.9
Roots and Tubers 1981/82 Est. 1982/83 Est.	965 975	410 408	1,105 1,135	140 160						:Cassava :Yams : Total	19.8 15.5 75.1
Total 3/ 1981/82 Est. 1982/83 Est.	 		==	132 136	41 46	37 47	12 16	95 89	29 30	: : :	
TUNISIA										: : :	
	: : 1,280 : 1,125	192 187	1,505 1,445	225 320	45 68	74 0 760	147 162	0	0	:Wheat :Barley : Total :	50.8 1.9 52.7
UGANDA	: :									:	
1982/83 Est.	: : 1,400 : 1,450	119 119	1,795 1,860	395 410						:Corn :Millet :Sorghum :Cassava	13.7 7.5 5.7 8.5
Roots and Tubers $\frac{4}{1981/82}$ Est.	6,040 6,053	465 458	6,530 6,690	490 637						:Plantains :Sweet- : potatoes :Potatoes	15.2 4.5 2.0
Beans, Dry 1981/82 Est. 1982/83 Est.	: : 190 : 200	21 21	290 305	100 105						:Beans, Dry : Total	
Total 3/ 1981782 Est. 1982/83 Est.	: : - -	 	 	682 7 50	11 7 137	6 5	1 1	676 745	116 136	: : :	
UPPER VOLTA	• : :									:	
	: : 1,178 : 1,178	217 217	1,514 1,545	336 367	153 179	25 24	. 11	311 343	142 167	:Wheat:Rice:Corn:Sorghum	1.1 2.9 38.8 23.6
	: : :									:Millet : Total	5.3 71.7
YEMEN (AR) Major Cereals	: : : : 981	222	1,240	259	59	400	94	0	0	: :Wheat :Rice	16.3 .5
1981/82 Est. 1982/83 Est.	938 : 938 : :	220	1,260	322	79	375	93	0	0	:Corn :Sorghum an : Millet :Barley : Total	4.6
YEMEN (PDR) Major Cereals 1981/82 Est. 1982/83 Est.	: 92 : 92 : 92 : :	172 172	337 345	245 253	73 81	169 185	51 59	76 68	22 22	: :Wheat :Rice :Corn :Sorghum :Millet : Total	26.3 10.3 4.1 1.1 18.7 60.5

Appendix 3--Data Used in Calculating African and Middle Eastern Nutrition-Based Food Aid Needs--Continued

	: C	ommodity Av	ailability, d Trade Dat		rance :		Aid Calcul	: Commodity and			
Country, Commodity and Year	:Avail - :ability	ross :Per Capita: Total : vail- : Targeted :Targeted:		Targeted : Import :		Commercial Import : Capacity :		Nutrition Food Need	Aid	: Share of : Per Cap : Caloric I : (1975-	Daily Dita Intake
ZAIRE	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity :	Percent
Major Cereals 1981/82 Est. 1982/83 Est.	: : 736 : 753	34 34	1,050 1,085	312 332						: :Rice :Corn :Millet & : Sorghum	2.8 9.0
Cassava 1981/82 Est. 1982/83 Est.	:12,403:12,609:	459 459	13,925 14,465	1,522 1,856		•				:Cassava : Total	55.7 68.1
Total 3/ 1981/82 1982/83	: :		 	844 982	219 274	181 192	47 54	663 790	172 220	:	
ZAMBIA Major Cereals 1981/82 Est. 1982/83 Est.	: : : 696 : 754	208 209	1,291 1,348	595 594	132 141	128 125	28 30	467 469	104 111	: :Wheat :Rice :Corn : Total	8.2 .7 <u>52.9</u> 61.8

Parentheses imply exports or export availability.

Data quoted on local marketing-year basis.

 $[\]frac{1}{2}/\text{ Includes production plus beginning stocks minus ending stocks shown in status quo table.} \\ \frac{2}{2}/\text{ Includes feed use noted in status quo table.} \\ \frac{3}{2}/\text{ Cereal equivalent.} \\ \frac{4}{2}/\text{ Includes plantains.} \\ \frac{5}{2}/\text{ Includes bananas.} \\ \frac{6}{2}/\text{ Nutrition-based estimates not available.} \\$

1980 Fel. 371 470 331 139 180 No 110 181 180 170 180 181 130 140 140 No 170 180 181 130 140 140 No 170 180 181 180	Country and Year	:Reserves	: f.o.				t :Petroleum ce: Imports	
1977-80 370 393 342 51 70 NA Disruption of local econogo caused by Soviet occupy 1980 Prel. 371 470 331 199 180 Na in its liely to lower trade surplus and cause a 1981 Est. 346 500 380 140 140 NA in reserves through 1982. Commercial food inport 1982 Est. 340 525 400 125 120 NA capacity is adequate, but weakening provided the provided of the provi		:		Million	U.S. Dol	lars		
1977-80 370 393 342 51 70 NA Disruption of local econogo caused by Soviet occupy 1980 Prel. 371 470 331 199 180 Na in its liely to lower trade surplus and cause a 1981 Est. 346 500 380 140 140 NA in reserves through 1982. Commercial food inport 1982 Est. 340 525 400 125 120 NA capacity is adequate, but weakening provided the provided of the provi	FGHANISTAN	:						
1980 Prel. : 371 470 331 139 180 MA : tion is likely to lower trade surplus and cause a 1982 Eat. : 346 500 360 140 140 140 MA : increasely strongly 1982 camerical of migrating the property of the property	1977-80	: 370	393	342	51	70	NA	Disruption of local economy caused by Soviet occup.
1982 Est. 340 525 400 125 120 M.	1980 Prel.						NA	:tion is likely to lower trade surplus and cause a
ANDCARDS 308 604 1,839 -1,235 89 222 Frade deficit increasing due to oil and foodstuff 1977-80 300 745 2,580 -1,835 108 350 Inputs and weakening jute export earnings. Bebt ear 1982 Eat. 316 810 2,990 -1,893 110 415 Store that the provided increasing due to oil and foodstuff 1982 Eat. 316 810 2,990 -1,893 110 415 Store that the provided increasing due to oil and foodstuff 1982 Eat. 310 900 2,625 -1,635 110 415 Store that the provided increasing due to oil and foodstuff 1982 Eat. 7,031 10,350 16,300 -6,150 1130 500 Store that the provided increasing due to il and foodstuff 1977-80 6,948 7,562 10,645 -3,083 1,032 3,711 Store that the provided increasing due to il and foodstuff 1982 Eat. 7,031 10,350 10,000 -1,003 1,032 3,711 Store that the provided increasing trade deficit increasing the provided increasing trade deficit increasing trade deficit increasing trade deficit increasing trade	1981 Est.							·
1977-80	1982 Est.	: 340	525	400	125	120	NA	:capacity is adequate, but weakening.
1986 Prel. 300	ANGLADESH	:						
1982 Est. : 316 810 2,690 -1,880 110 415 increasing slightly and reservee rising over 1980 1982 Est. : 310 90 2,825 -1,925 115 500 1892 Est. : 310 8,981 15,224 -6,266 1,083 7,012 inlevels, causing declines in commercial import 9181 181 181 191 191 191 191 191 191 19	1977-80	: 308	604	1,839		89		:Trade deficit increasing due to oil and foodstuff
1982 Est. 310 900 2,825 - 1,925 115 500								
NOTE 1977-80 18,998 13,624 -6,626 1,083 7,012 1,180 7,011 1,180 7,011 1,180 7,011 1,180				-	•			
NONESIA 1977-80 13,648 15,345 15,044 -6,056 1,083 7,022 1,080 1,082 1,083 1,082 1,080 1,08	1902 ESL.	: 310	900	2,023	-1,923	113	500	
1980 Prel.	NDIA	:						:
1982 Est.	1977-80	: 6,948			•			:Worker remittances, foreign investment, and IMF as
1982 Est. 7,031 12,150 18,700 -6,550 1,180 7,200			•					:tance will help finance ballooning trade deficits.
NOONESIA			•	,	•			
SECONDENSIA	1982 EST.	: 7,031	12,150	18,700	-6,550	1,180	7,200	
NONESIA		:						
1977-80		:						
1980 Prel. : 5,995 27,000 20,000 7,000 20,000 7,000 20,000 1,910 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 100 20,000 2,000 2,050 Exporter 1982 Est. : 100 20,000 2,000 2,050 Exporter 1982 Est. : 100 20,000 2,000 2,050 Exporter 1992 Est. : 100 20,000 2,00	NDONESIA	:						:
1980 Prel. : 5,995 27,000 20,000 7,000 20,000 7,000 20,000 1,910 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 7,000 31,300 25,000 6,300 2,050 Exporter 1982 Est. : 100 20,000 2,000 2,050 Exporter 1982 Est. : 100 20,000 2,000 2,050 Exporter 1982 Est. : 100 20,000 2,000 2,050 Exporter 1992 Est. : 100 20,000 2,00	1977-80	: 3 6/10	15 3/5	2 70%	6 551	1 650	Evperter	Trade and commercial account ournly constant to
1981 Est. : 5,995 27,000 20,000 7,000 1,910 Exporter : and strong world demand and prices for timber and right in the service will remain small relate to exports. Debt service will remain small relate to export earnings and reserve buildup should constitue. AMPUCHEA : NA				-		-	•	
1982 Est. 7,000 31,300 25,000 6,300 2,050 Exporter	•			•				
AMPUCHEA : NA			•				-	:ber exports. Debt service will remain small relat
AMPUCHEA NA		:			Í		•	:to export earnings and reserve buildup should con-
Section Sect		:						:tinue.
Section Sect		:						
AOS : 18	AMPUCHEA	: NA	NA	NA	NA	NA	NA	:Internal conflict disrupting economy. Internation
AOS : 18		:						
1980 Prel 26	AOS	:						:capacity virtually nonexistent.
1980 Prel. : 26		: 18	20	78	-58	3	NA	:Trade deficit is mounting as stagnant export earni
1982 Est. : 15 23 100 -77 2 NA : AKISTAN	1980 Prel.	: 26	20	85		3	NA	:are offset fourfold by import bills. Commercial f
AKISTAN								:import capacity weakening.
1980 Prel. 392	1982 Est.	: 15	23	100	- 77	2	NA	
1980 Prel. 392		:						
1980 Prel. : 496 2,566 5,672 -3,106 584 393 :export earnings, but high import bills for oil and 1981 Est. : 641 2,925 6,600 -3,675 610 443 :capital foods purchases are keeping trade balance 1982 Est. : 550 3,450 7,250 -3,800 625 485 :deficit. Despite forecast gains in export earnings and worker's remittances, trade deficit is project towiden through 1982 due in part to the Afghani :refugee problem. Although debt service will increase, reserves will probably grow as a result of :capital inflows and grants. HILIPPINES	AKISTAN	:	- 000	0 (70	- 0/0		0.5.	*
1981 Est. : 641 2,925 6,600 -3,675 610 443 :capital foods purchases are keeping trade balance 1982 Est. : 550 3,450 7,250 -3,800 625 485 :deficit. Despite forecast gains in export earning 1983 Est. : 550 3,450 7,250 -3,800 625 485 :deficit. Despite forecast gains in export earning 1984 Est. : 550 3,450 7,250 -3,800 625 485 :deficit. Despite forecast gains in export earning 1985 Est. : 641 2,925 6,600 -3,875 610 485 :deficit. Despite forecast gains in export earning 1980 Indicate the following stand worker's remittances, trade deficit is project 1981 Est. : 2,886 5,581 8,177 -2,596 761 1,528 1 1,102 :Trade deficit expected to increase substantially deficit exported to increase substantially deficit exports and workers and weakening prices for coccuping space and substantially deficit exports and workers and weakening prices for coccuping space and substantially deficit exports and substantially deficit exports and weakening prices for coccuping space and substantially deficit exports and workers and reserve build up. 1980 Est. : 200 1,300 2,600 -1,200 95 200 :exports and high oil imports. Despite steady econ exports and high oi								·
1982 Est. : 550 3,450 7,250 -3,800 625 485 :deficit. Despite forecast gains in export earning :and worker's remittances, trade deficit is project :to widen through 1982 due in part to the Afghani :refugee problem. Although debt service will increase, reserves will probably grow as a result of :capital inflows and grants. HILIPPINES								
: and worker's remittances, trade deficit is project to widen through 1982 due in part to the Afghani refugee problem. Although debt service will increase, reserves will probably grow as a result of capital inflows and grants. HILIPPINES								
: refugee problem. Although debt service will increase, reserves will probably grow as a result of capital inflows and grants. INTERPRES Capital inflows and grants Capital inflows Capital in		:	,	,	,			:and worker's remittances, trade deficit is project
: crease, reserves will probably grow as a result of capital inflows and grants. HILIPPINES :		:						-
#HLIPPINES : : : : : : : : : : : : : : : : : : :		:						
### HILIPPINES : : : : : : : : : : : : : : : : : : :		:						
1977-80		:						:
1980 Prel. : 2,846 5,581 8,177 -2,596 761 1,528	HILIPPINES	:						1
1981 Est. : 3,000 6,420 9,810 -3,390 945 2,000 :nuts, copper, and wood only partially offset by su 1982 Est. : 3,100 8,350 11,775 -3,425 1,050 2,600 :gains. Growing debt service payments will offset :jected capital inflows and reserve build up. RI LANKA : 1977-80 : 363 919 1,309 -390 95 153 :Tourism receipts and workers' remittances continue 1980 Prel. : 246 1,095 2,105 -1,010 92 208 :help offset trade deficit caused by low tea and ru 1981 Est. : 220 1,330 2,600 -1,270 95 230 :exports and high oil imports. Despite steady econ 1982 Est. : 200 1,700 3,000 -1,300 95 270 :growth, increased aid inflows, and direct investme :projected through 1982, the Government's policy :of consumer subsidization may stunt short-term :economic development. TETNAM : 1980 Prel. : 134 428 1,130 -702 120 113 :Increasing trade deficit and declining reserves wi 1980 Prel. : 145 360 1,023 -663 150 102 :keep Vietnam dependent on aid from other countries 1981 Est. : 98 400 1,100 -700 225 120 :							•	
1982 Est. : 3,100 8,350 11,775 -3,425 1,050 2,600 :gains. Growing debt service payments will offset : jected capital inflows and reserve build up. RI LANKA : : : important inflows and reserve build up. : important inflows and workers' remittances continue in the second inflows inflows, and direct investme inflows infl		,	•					
: jected capital inflows and reserve build up. RI LANKA 1977-80 : 363 919 1,309 -390 95 153 :Tourism receipts and workers' remittances continue 1980 Prel. : 246 1,095 2,105 -1,010 92 208 :help offset trade deficit caused by low tea and ru 1981 Est. : 220 1,330 2,600 -1,270 95 230 :exports and high oil imports. Despite steady econ 1982 Est. : 200 1,700 3,000 -1,300 95 270 :growth, increased aid inflows, and direct investme : : : : : : : : : : : : : : : : : : :								
RI LANKA :	1702 LSt.	: 5,100	0,550	11,775	3,423	1,050	2,000	
1977-80 363 919 1,309 -390 95 153 :Tourism receipts and workers' remittances continue		:						:
1980 Prel. : 246 1,095 2,105 -1,010 92 208 :help offset trade deficit caused by low tea and ru 1981 Est. : 220 1,330 2,600 -1,270 95 230 :exports and high oil imports. Despite steady econ 1982 Est. : 200 1,700 3,000 -1,300 95 270 :growth, increased aid inflows, and direct investme : : : : : : : : : : : : : : : : : : :	SRI LANKA	: 362	010	1 300	-390	u s	153	*Tourism receipts and workers! remittances centinus
1981 Est. : 220 1,330 2,600 -1,270 95 230 :exports and high oil imports. Despite steady econ 1982 Est. : 200 1,700 3,000 -1,300 95 270 :growth, increased aid inflows, and direct investme :projected through 1982, the Government's policy :of consumer subsidization may stunt short-term :economic development. : : TETNAM :								•
1982 Est. : 200 1,700 3,000 -1,300 95 270 :growth, increased aid inflows, and direct investme :projected through 1982, the Government's policy :of consumer subsidization may stunt short-term :economic development. IETNAM : : : : : : : : : : : : : : : : : : :								:exports and high oil imports. Despite steady econ
: of consumer subsidization may stunt short-term : economic development. : : : : : : : : : : : : : : : : : : :				•		95	270	:growth, increased aid inflows, and direct investme
: :economic development. :: :IETNAM : :: :1977-80 : 134		:						
: : : : : : : : : : : : : : : : : : :		:						·
1977-80 : 134 428 1,130 -702 120 113 :Increasing trade deficit and declining reserves wi 1980 Prel. : 145 360 1,023 -663 150 102 :keep Vietnam dependent on aid from other countries 1981 Est. : 98 400 1,100 -700 225 120 :		:						:
1980 Prel. : 145 360 1,023 -663 150 102 :keep Vietnam dependent on aid from other countries 1981 Est. : 98 400 1,100 -700 225 120 :	/IETNAM	:		1 100	700	100	110	:
1981 Est. : 98 400 1,100 -700 225 120 :								
								:
								•

NA = Not available.
Data quoted on a calendar year basis.

	: Commodity Production, Disappearance, and Trade Data :								: Aid Calculation					
	: Forecast :Production	: Stocks		:Targeted	r:Actual or :Targeted : Ending : Stocks	: Targe : Impo	eted ort		ercial Capacity		s Quo Aid eds			
	: :1,000	Tons	Kilograms	1,00	0 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars			
	: :													
Wheat 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,525 : 2,200 : 2,500 : 2,200	0 0 0 0	191 167 191 191	2,763 2,500 2,540 2,600	0 0 0 0	238 300 40 400								
Other Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 1,048 : 947 : 1,017 : 947	0 0 0	74 63 74 74	1,047 947 972 992	0 0 0	0 0 (45) 45								
Total	:			,,_	ű									
1981/82 Est. 1982/83 Est.	:					(5) 445	(2) 190	50 45	18 20	0 400	0 170			
BANGLADESH	• • •					443	170	75	20	400	170			
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 13,078 : 14,300 : 14,000 : 14,500	227 320 1,060 845	148 150 148 148	13,248 13,900 14,090 14,445	458 1,060 845 845	401 340 (125) (55)								
Wheat 1977/78-1980/81 1980/81 Pre1. 1981/82 Est. 1981/83 Est.	: 502 : 823 : 1,000 : 1,600	171 107 350 260	23 17 23 23	1,816 1,529 1,951 2,000	258 350 260 260	1,426 949 860 400								
Total Cereals 1981/82 Est. 1982/83 Est.	: : : :	==	Ξ	Ξ	 	735 345	152 75	55 55	11 13	680 290	141 62			
Vegetable Oils 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 65 : 67 : 70	37 35 18 43	2 2 2 2	143 145 150 155	34 18 43 43	75 61 105 80	65 55	75 70	46 48	30 10	19 6			
Total 1981/82 Est. 1982/83 Est.	: : : : :		 	<u></u>			217 130	<u></u>	57 61		160 68			
INDIA	: :													
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 50,658 : 54,000 : 55,000 : 56,000	6,015 5,459 3,500 4,735	81 75	1/ 50,457 2/ 55,464 2/ 52,890 2/ 53,201	5,825 3,500 4,735 5,905	(441) (495) (875) (910)								
Wheat 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 31,958 : 31,564 : 34,000 : 35,200	7,789 5,226 3,000 4,525	50 51	3/ 33,548 4/ 33,785 4/ 33,105 4/ 35,785	5,758 3,000 4,525 6,035	(441) (5) 2,630 2,095								
Other Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 28,789 : 28,616 : 29,500 : 30,000	3,087 1,650 1,800 1,975	39 42	5/ 29,391 6/ 28,466 7/ 31,320 7/ 31,900	2,487 1,800 1,975 2,015	(2) 0 1,995 1,940								
See footnotes at e	: end of table									Co	ontinued-			

	: Commodity Production, Disappearance, and Trade Data : :								Aid Calculation				
		Stocks	Per Capita :Actual or:Actual or: Actual or :Targeted :Targeted : Targeted : Usage : Ending : Intake : :Stocks :			: Targe	ted	: Import Capacity			s Quo Aid eds		
INDIACon.	: <u>1,000</u>	Tons	Kilograms	1,000	O Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars		
Total Cereals	:												
1981/82 Est. 1982/83 Est.	: : :					3,750 3,125	9 7 0 8 6 5	2,000 2,400	520 6 55	1,750 725	450 210		
Pulses 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 10,972 : 8,371 : 12,000 : 12,500	0 0 0 0	16 12 16 16	11,065 8,521 11,800 12,050	0 0 0 0	93 150 (200) (450)	(85) (210)	60 75	25 35	0 0	. 0		
Vegetable 0i1 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 2,705 : 2,558 : 2,904 : 3,050	272 334 309 293	6 6 6	3,915 3,950 4,110 4,190	292 309 293 293	1,230 1,367 1,190 1,140	795 8 5 5	1,080 1,225	725 920	110 0	70 0		
Total 1981/82 Est. 1982/83 Est.	: : : :	<u></u>			 	<u></u>	1,680 1,510		1,270 1,610	·	410 0		
INDONESIA	: :												
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 17,778 : 19,900 : 19,300 : 20,600	1,159 1,821 3,388 2,360	125 <u>9</u> 122 10	2/ 19,125 20,389 20,330 20,800	1,800 3,390 2,600 2,800	1,988 2,058 240 400							
Other Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 3,535 : 3,600 : 4,100 : 4,300	192 197 283 223	29 30 29 29	4,183 4,420 4,373 4,466	220 283 223 223	1,266 1,501 843 796							
Cassava 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 12,783 : 12,400 : 13,600 : 13,500	0 0 0 0	76 <u>12</u> 79 13	/ 11,531 // 11,490 // 12,265 // 12,515	0 0 0	(1,252) (910) (1,335) (1,285)							
Total Above <u>14</u> / 1981/82 Est. 1982/83 Est.	: : : :					575 675	195 240	2,900 3,025	9.75 1,100	0	0		
Vegetable 0i1 1977/78-1980/81 1980/81 Pre1. 1981/82 Est. 1982/83 Est.	: 1,189 : 1,342 : 1,418 : 1,502	39 47 78 51	6 6 6	791 851 845 862	51 78 51 51	(347) (460) (600) (640)	(365) (430)	7 5 80	45 55	0	. 0		
Total 1981/82 Est. 1982/83 Est.	: : :	 	. ==		==		(170) (190)		1,020 1,155		0		
KAMPUCHEA	:												
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 527 : 585 : 590 : 590	0 0 0 0	119 151 119 111	690 835 665 675	0 0 0 0	163 250 75 85							

	: Co	ommodity P	Aid Calculation								
Country, Commodity, and Year	: Forecast : Production:	Stocks	Stocks : Actual or		:Actual or:Actual or: :Targeted :Targeted : : Usage : Ending : : Stocks :		Targeted : Import :		: Import Capacity : :		Quo Aid eds
WALKEN OF THE PARTY OF THE PART	: : <u>1,000</u>	Tons	Kilograms	<u>1</u> ,00	00 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
KAMPUCHEACon.	: :										
Other Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 83 : 85 : 90 : 90	0 0 0 0	20 22 20 20	113 120 110 151	0 0 0 0	31 35 20 25					
Total 1981/82 Est. 1982/83 Est.	: : :	==				95 110	40 50	0	0 0	95 110	40 50
LAOS	:									. *	
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 591 : 592 : 590 : 590	0 0 0 0	198 192 198 198	679 667 700 705	0 0 0 0	88 75 110 115	48 53	30 20	12 10	80 95	36 43
PAKISTAN	: :										
Wheat 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 9,555 : 9,555 : 10,757 : 11,000 : 11,500	877 998 750 900	133 134 133 133	10,450 11,100 11,200 11,475	902 750 900 900	920 95 350 (25)					
Other Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 3,975 : 3,970 : 4,070 : 4,170	393 399 199 389	37 - 37 -	15/ 3,067 16/ 3,170 16/ 3,190 16/ 3,220	386 199 389 389	(915) (1,000) (690) (950)					
Total Cereals 1981/82 Est. 1982/83 Est.	: : : :		 	 	 	(340) (975)	(90) (270)	1,030 1,090	265 300	0	0 0
Pulses 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 527 : 305 : 540 : 550	0 0 0 0	7 4 7 7	526 305 571 586	0 0 0 0	0 0 80 90	70 80	5 5	3 4	75 85	67 76
Vegetable 0ils 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 217 : 261 : 258 : 260	63 75 75 68	7 8 7 7	550 625 588 603	68 75 68 68	338 365 325 345	205 245	510 520	320 365	. 0 0	0
Total 1981/82 Est. 1982/83 Est.	: : : :	==	Ξ				185 55		588 669		0
PHILIPPINES	: :										
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 4,605 : 4,843 : 5,000 : 5,200	1,285 1,524 1,487 1,412	90 <u>-</u> 86	17/ 4,365 18/ 4,580 18/ 4,645 18/ 4,755	1,412 1,487 1,412 1,412	(155) (300) (430) (445)					
Other Cereals 1977/78-1980/81 1980/81 Prel.	: : 3,091 : 3,100	431 332		19/ 4,086 20/ 4,265	325 142	889 975					

	: Co	ommodity P	roduction,	Disappeara	nce, and Tra	ade Data	:		Aid Calcul	ation	
	Actual or : Forecast : Production:	Stocks	:Actual or	:Targeted	r:Actual or: :Targeted : : Ending : : Stocks	Targ	eted :	Import	Capacity		s Quo Aid eds
	1,000	Tons	Kilograms	1,00	0 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
PHILIPPINESCon.	: :										
Other CerealsCon. 1981/82 Est. 1982/83 Est.	: : : 3,340 : 3,400	431 325	58 58	20/ 4,395 20/ 4,468	325 325	1,238 1,108					
Cassava 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 1,768 : 1,800 : 1,820 : 1,840	0 0 0 0	37 38 37 37	1,768 1,800 1,880 1,927	0 0 0 0	0 0 6 0 90					
Total Above <u>14/</u> 1981/82 Est. 1982/83 Est.	 	Ξ	==	Ξ	 	831 697	155 135	780 920	145 177	51 0	10 0
Coconut Oil 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 1,100 : 1,143 : 1,430 : 1,510	54 57 145 78	5 5 5 5	230 250 242 248	78 145 78 78	(738) (805) (745) (840)	(444) (558)	0	0	0	0
Total 1981/82 Est. 1982/83 Est.	: : : :	Ξ	=	 	==	==	(289) (423)		145 177	 	0
SRI LANKA	: :										
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 1,278 : 1,441 : 1,420 : 1,450	186 167 203 203	107 109 107	1,522 1,600 1,605 1,635	223 203 223 223	281 195 205 205					
Wheat 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 0 : 0 : 0	0 0 0	57 44 57 57	813 645 855 875	0 0 0 0	813 650 855 875					
Cassava 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	450 389 450 450	0 0 0 0	31 26 31 31	450 389 465 475	0 0 0 0	0 0 15 (5)					
Total Above <u>14/</u> 1981/82 Est. 1982/83 Est.	: : : :	==				1,065 1,080	245 270	560 710	130 180	505 37 0	117 95
Coconut Oil 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 72 : 58 : 85 : 85	0 0 0 0	4 4 4 4	55 56 59 60	. 0 0 . 0	(17) (2) (16) (17)	(11) (11)	5 6	3 4	0	0 0
Total 1981/82 Est. 1982/83 Est.	: : :	ΞΞ	==	=	Ξ	==	234 259	==	133 184	==	101 75
VIETNAM	:										
Rice 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 6,805 : 6,500 : 6,500 : 6,500	0 0 0	137 127 137 137	7,033 6,750 7,414 7,562	0 0 0 0	228 250 914 1,062					

	:	C	Commodity	Production,	Disappeara	nce, and Tr	ade Data	i :		Aid Calcul	ation	
Country, Commodity and Year	:	ctual or : Forecast : roduction: :	Stocks	:Per Capita :Actual or : Targeted : Intake	:Targeted : Usage	:Actual or: :Targeted : : Ending : : Stocks :	Targ Imp			ercial Capacity		•
VIETNAMCon.	: :	1,000	Tons	Kilograms	1,000	Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
Other Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	:	483 520 520 520	0 0 0 0	35 31 35 35	1,780 1,670 1,878 1,916	0 0 0 0	1,297 1,150 1,358 1,396					
Total 1981/82 Est. 1982/83 Est.	: :	7,020 7,020	==	==	9,295 9,480	==	2,272 2,458	523 602	370 430	85 105	1,902 2,028	438 497

Parentheses imply export availability.

Data quoted on local marketing-year basis.

1/	Includes	food		of	300	000	tone	
1/	Includes	reea	use	OI	300,	, UUU	cons.	

^{1/} Includes feed use of 300,000 tons.
2/ Includes feed use of 250,000 tons.
3/ Includes feed use of 365,000 tons.
4/ Includes feed use of 300,000 tons.
5/ Includes feed use of 1,656,000 tons.
6/ Includes feed use of 1,720,000 tons.
8/ Includes feed use of 1,775,000 tons.

 $[\]frac{8}{1}$ Includes feed use of 1,775,000 tons. $\frac{9}{1}$ Includes feed use of 1,976,000 tons. $\frac{10}{1}$ Includes feed use of 1,930,000 tons.

¹¹/ Includes feed use of 590,000 tons.

 $[\]overline{12}$ / Includes feed use of 595,000 tons.

^{13/} Includes feed use of 665,000 tons.

 $[\]overline{14}$ / Cereal equivalent.

^{15/} Includes feed use of 125,000 tons.
16/ Includes feed use of 130,000 tons.
17/ Includes feed use of 345,000 tons.

 $[\]frac{\overline{18}}{19}$ / Includes feed use of 370,000 tons. $\frac{\overline{19}}{19}$ / Includes feed use of 1,360,000 tons.

^{20/} Includes feed use of 1,500,000 tons.

	: Com		ilability, Trade Dat		arance, :		Aid Calcu	lation		: Commodit	v and
Country,Commodity, and Year		:Per Capit : Require-	a: Total :Require- : ment : 2/	: Ta	rgeted :		: Import :	Nutrition Food		: Share of : Per Cap : Caloric 1	Daily oita Intake
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars		Million Dollars	•	Million Dollars	: :Commodity	
AFGHANISTAN	:									: :	
Wheat 1981/82 Est. 1982/83 Est.	: : 2,500 : 2,200	178 176	2,370 2,395	(130) 195						:Wheat :Rice :Corn : Total	54.1 7.0 15.3 76.4
Other Cereals 1981/82 Est. 1982/83 Est.	: 1,017 : 947	62 62	907 980	(110) (33)	•					: : : : : : : : : : : : : : : : : : : :	
Total 1981/82 Est. 1982/83 Est.	: : 3,517 : 3,147	241 238	3,277 3,375	(240) 162	(95) 70	50 45	18 20	0 117	0 50	:	٠
BANGLADESH	:									:	
Rice 1981/82 Est. 1982/83 Est.	: : 14,215 : 14,500	182 182	17,315 17,735	3,100 3,235						: :Wheat :Rice :Vegetable : Total	11.9 72.9 0ils 2.3 87.1
Wheat 1981/82 Est. 1982/83 Est.	: : 1,090 : 1,595	32	3,005 3,155	1,915 1,560						:	0,11
Total Cereals 1981/82 Est. 1982/83 Est.	: : 15,305 : 16,095	214 215	20,320 20,890	5,015 4,795	1,030 1,055	55 55	11 13	4,960 4,740	1,019 1,042	:	
Vegetable Oils 1981/82 Est. 1982/83 Est.	: : 45 : 70	2 2	195 198	150 128	91 88	75 70	46 48	75 58	45 40	: : :	
Total 1981/82 Est. 1982/83 Est.	: : :	<u></u>		 	1,121 1,143	 	57 61	 	1,064 1,082	: : :	
INDIA	:									:	
Rice 1981/82 Est. 1982/83 Est.	: : 53,765 : 54,830	77 77	54,020 55,070	255 240						:Wheat :Rice :Corn :Sorghum	17.5 30.6 3.5 6.5
Wheat 1981/82 Est. 1982/83 Est.	: : 32,475 : 33,690	53 53	36,535 37,345	4,060 3,655						:Millet :Barley :Pulses :Vegetable	6.0 1.0 7.2
Other Cereals 1981/82 Est. 1982/83 Est.	: 29,325 : 29,960	50	35,450 36,310	6,125 6,350						: Total : : : :	78.2
Total Cereals 1981/82 Est. 1982/83 Est.	: :115,565 :118,480	180 181		10,440 10,245	2,700 2,840	2,000 2,400	520 655	8,440 7,845	2,180 2,185	:	
Pulses 1981/82 Est. 1982/83 Est.	: : 12,000 : 12,500		13,680 14,000	1,680 1,500	730 675	60 75	25 35	1,620 1,425	705 640	:	
Vegetable Oils 1981/82 Est. 1982/83 Est.	: 2,920 : 3,050		3,790 3,870	870 8 2 0	585 615	1,080 1,225	725 92 0	0 0	0 0	:	
Total 1981/82 Est. 1982/83 Est.	: : :	Ξ	==		4,015 4,130	= .	1,270 1,610	==	2,745 2,520	:	
See footnotes at	end of	table.								Continu	ıed

	: Com	modity Avai			rance, :		44.1.0-11			:	
	:Avail- :ability : 1/	:Per-Capita : Require-		Tar , In	geted : iport : irement :	Commercial		Nutrition Food A	id	: Commodit : Share of : Per-Cap : Caloric I : (1975-	Daily ita Intake
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	•	Million Dollars	1,000 Tons	Million Dollars	: Commodity	Percen
	: : 20,088 : 20,160	124 124	20,678 20,870	590 710						:Wheat :Rice :Corn :Cassava	3.3 53.5 8.1 7.2
Other Cereals 1981/82 Est. 1982/83 Est.	: : 4,160 : 4,300	31 31	5,245 5,380	1,085 1,080						:Vegetable : Oils : Total	5.9 78.0
	: : 13,600 : 13,500		13,860 14,000	260 500						• • •	
Total Above 3/ 1981/82 Est. 1982/83 Est.	: :	<u></u> 	 	1,775 1,980	605 720	2,900 3,025	975 1,100	0 0	0	: :	
Vegetable Oils 1981/82 Est. 1982/83 Est.	: : 1,445 : 1,502	5 5	795 810	(650) (692)	(395) (470)	75 80	45 55	0 0	0 0	: : :	
Total 1981/82 Est. 1982/83 Est.	: : :	==	==	<u></u>	210 250	·	1,020 1,155	==	0 0	: :	
KAMPUCHEA	: :									: :	
Rice 1981/82 Est. 1982/83 Est.	: : 590 : 590	180 180	1,010 1,020	420 430						:Wheat :Rice :Corn	2.1 73.6 4.1
Other Cereals 1981/82 Est. 1982/83 Est.	: : : 90 : 90	17 17	105 105	15 15						: Total : :	79.8
Total 1981/82 Est. 1982/83 Est.	: : 680 : 680	197 197	1,115 1,125	435 445	180 200	0	0	435 445	180 200	: : : :	
LAOS	: :						·			: :	
Rice 1981/82 Est. 1982/83 Est.	: : 590 : 590	204 204	715 720	125 130	55 60	30 20	12 10	95 110	43 50	: :Rice : :	79.7
PAKISTAN	: :									: :	
	: : 10,850 : 11,500	136 136	11,405 11,710	555 210					٠	:Wheat :Rice :Corn	46.4 11.1 3.1
Other Cereals 1981/82 Est. 1982/83 Est.	: : 3,880 : 4,170	38 38	3,290 3,330	(590) (840)						:Chickpeas :Vegetable : Oils : Total	$\frac{5.1}{68.0}$
	: : 14,730 : 15,670	174 174	14,695 15,040	(35) (630)	(10) (175)	1,030 1,090	265 300	0 0	0 0	: : :	
Pulses 1981/82 Est. 1982/83 Est.	: : 540 : 550	6 6	570 585	30 35	25 30	5 5	3 4	25 30	22 26	: : :	
Vegetable Oils 1981/82 Est. 1982/83 Est.	: : 265 : 260	5 5	455 465	190 205	120 180	510 520	320 365	0 0	0 0	: : :	
See footnotes at	end of t	able.								: Continu	ed

	: Com	nmodity Avai	lability, Trade Dat		ance, :		Aid Calcul	ation		: Commodity a	nd
		:Per Capita : Require- : ment	: Total	: Targ	geted : oort : rement :	Commercia: Capac:	: l Import :	Nutrition Food Needs	Aid	: Share of Dai : Per-Capita : Caloric Inta : (1975-77)	.1y ı ıke
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	•	Million Dollars	1,000 Tons	Million Dollars	: :Commodity Pe	rcent
PAKISTANCon.	: :									: :	
Total 1981/82 Est. 1982/83 Est.	: :	<u></u>			135 35		588 669		0	: : :	
PHILIPPINES	:									: :	
Rice	: :										4.7
1981/82 Est. 1982/83 Est.	: 5,075 : 5,200	96 96	4,740 4,860	(335) (340)						:Corn 1	39.1 .7.1 4.1
Other Cereals 1981/82 Est. 1982/83 Est.	: : 3,446 : 3,400	75 73	5,176 5,070	1,730 1,670						:Coconut Oil : Total 6:	4.0
Cassava 1981/82 Est. 1982/83 Est.	: : 1,820 : 1,840	37 37	1,875 1,920	55 80						: :	
Total Above 3/ 1981/82 Est. 1982/83 Est.	: : :			1,415 1,360	260 265	780 920	145 177	635 440	115 88	: : :	
Coconut Oil 1981/82 Est. 1982/83 Est.	: 1,497 : 1,510	5 5		(1,242) (1,250)	(740) (830)	0 0	0 0	0	0	: :	
Total 1981/82 Est. 1982/83 Est.	: : :	==	==	==	(480) (565)	==	145 177	==	0 0	: : :	
SRI LANKA	:									:	
Rice 1981/82 Est. 1982/83 Est.	: : 1,400 : 1,430	102 102	1,535 1,545	135 115						:Rice 4	18.3 10.9 4.6
Wheat 1981/82 Est. 1982/83 Est.	: : 0 : 0	58 58	870 885	870 885						_	6.8
Cassava 1981/82 Est. 1982/83 Est.	: : 450 : 480	46 46	690 710	240 230						:	
Total Above 3/ 1981/82 Est. 1982/83 Est.	: : :			1,100 1,090	250 270	560 710	130 180	540 380	120 90	: : :	
Coconut 0i1 1981/82 Est. 1982/83 Est.	: : 85 : 85	3 3	40 40	(45) (45)	(30) (30)	5 6	3 4	0 0	0	: : :	
Total 1981/82 Est. 1982/83 Est.	: :	·			220 240		133 184		87 56	:	
VIETNAM										:	
Rice 1981/82 Est. 1982/83 Est.	: : 6,500 : 6,500	159 159	8,700 8,850	2,200 2,350						:Rice 6 :Corn 7.	5.8 6.3 2.8 4.9
See footnotes at	end of t	able.								: Contin	ued

Appendix 6--Data Used in Calculating Asian Nutrition-Based Food Aid Needs--Continued

	: Co	ommodity Av	ailability,	Disapp	earance,					:	
	:	an	d Trade Dat	a			Aid Cal	culation		: Commodit	ty and
Country, Commodity	,: Gross	:Per-Capit	a: Total :	Ta	rgeted			: Nutrit	tion-Based	: Share of	Daily
and Year	:Avail-	:Require-	:Require-:	Iı	mport :	Commerc	cial Import	: Foo	od Aid	: Per-Cap	oita
	:ability	: ment	:ment 2/:	Req	uirement :	: Cap	pacity	:	Needs	: Caloric]	Intake
	: 1.	/:	: :			:		:		: (1975-	- 77)
	:									:	
	: 1,000		1,000	1,000	Million	1,000	Million	1,000	Million	:	
	: Tons	Kilograms	Tons	Tons	<u>Dollars</u>	Tons	<u>Dollars</u>	Tons	Dollars	: Commodity	Percent
	:									:	
VIETNAMCon.	:									:	
	:									:	
Other Cereals	:									:	
1981/82 Est.	: 520	25	1,435	915						:	
1982/83 Est.	: 520	25	1,460	940						:	
	:									:	
Total	:									:	
1981/82 Est.	: 7,020	184	10,135	3,115	720	370	85	2,745	635	:	
1982/83 Est.	: 7,020	183	10,310	3,290	805	430	105	2,860	700	:	
	:									:	

Parentheses imply exports or export availability. Data quoted on marketing-year basis.

 $[\]frac{1}{2}$ / Includes production plus beginning stocks minus ending stocks shown in status quo table. $\frac{1}{2}$ / Includes feed use noted in status quo table. $\frac{1}{2}$ / Cereal equivalent.

Country and Year	: Reserves				:Servic		: 1981 and 1982 Conditions as of June 1981
	:	<u>M</u>	illion U.S	S. Dolla	rs		
BOLIVIA	:						
1977 - 80	: 166	746	835	-89	274	2	:High prices for tin, natural gas, and silver moved
1980 Prel.	: 106	946	814	132	335	_ 3	:trade account into surplus in 1980 for the first tim
1981 Est.	: 138	989	820	169	380	Exporter	:since 1974. However, large debt service payments
1982 Est.	: 125	1,020	830	190	360	Exporter	:force reserve drawdown below 1977 levels. Commercia
COLOMBIA							:import capacity should improve in 1981 and 1982.
1977-80	· : 3,197	3,253	3,212	41	491	561	:Trade deficit likely to increase as low coffee price
1980 Prel.	: 4,831	4,137	4,527	- 390	- 590	NA	and cotton export volume dampen gains from sugar ex-
1981 Est.	: 4,760	4,300	4,700	-400	622	NA	:ports. Trade-related borrowing and steadily increase
1982 Est.	: 4,800	4,500	5,000	- 500	626	NA	:ing public sector borrowing have increased debt ser-
	:						:vice. However, reserves are substantial. Commercia
OVERTALL DED	:						:food import capacity declining.
1977-80	: 194	825	1,047	-222	115	293	:
1980 Prel.	: 202	963	1,426	-463	166	501	:Improvement in trade deficit is projected as long as :world sugar and nickel prices remain high. Drawdown
1981 Est.	: 148	1,300	1,710	-410	170	560	of reserves and reduced export earnings in 1980 due
1982 Est.	: 160	1,720	2,100	-380	180	625	:to hurricane damage should be reversed with export
	:						:rebound in 1982. Commercial food import capacity
	:						:weak but improving.
CUADOR	:	1 770	1 000	1.5	277		:
1977-80	: 748	1,778	1,823	-45	377 472	Exporter	:0il and banana exports continue to boost trade sur-
1980 Prel. 1981 Est.	: 1,013	2,400 2,700	2,247 2,650	153 50	472 500	Exporter Exporter	:plus. Despite debt rescheduling in 1979, debt servi :payments will increase in 1981 and 1982 due to shift
1982 Est.	: 750	3,200	3,000	200	555	Exporter	:towards private financing and rising public sector
17-12 2001	:	-,	•,•••				:debt. Commercial food import capacity fairly constant
L SALVADOR	:						:
1977-80	: 175	1,018	1,233	- 215	41	98	:Civil war disruption of economy and low coffee price
1980 Prel.	: 78	1,124	952	172	37	155	:reverse trade surplus. Capital flight continues to
1981 Est.	: 92	1,100	1,100	0	50	170	:exacerbate reserve problem and lower ability to impo
1982 Est.	: 85 ·	1,200	1,300	-100	65	200	:food commercially.
UATEMALA	:						:
1977-80	: 638	1,226	1,470	-146	31	106	:Low coffee prices weakened trade balance. Increase
1980 Prel.	: 457	1,432	1,748	-316	53	140	:deficit projected for 1981 and 1982. Combined draw
1981 Est.	: 445	1,520	1,900	- 350	55	150	:down in reserves expected as trade deficit worsens a
1982 Est.	: 420	1,700	2,100	- 400	60	165	:capital flight continues. Ability to import food
ATMT	:						:commercially expected to decline through 1982.
<u>1977</u> -80	: 36	156	247	-91	11	33	: :Storm damage to coffee trees in 1980 will have adver
1980 Prel.	: 16	160	310	- 150	11	55	:affect through 1982 and enlarge trade deficit. Drop
1981 Est.	: 11	155	330	- 175	6	60	in bauxite production and exports also weakening
1982 Est.	: 10	155	345	-190	11	65	:trade balance. Critically low reserves and weakening
	:						:ability to import food commercially are expected to
	:						:continue through 1982.
ONDURAS 1077-90	. 101	651	788	-137	78	99	:
1977-80 1980 Prel.	: 181 : 150	769	1,039	-270	93	136	:Slowed capital inflows and worsening trade deficit :exacerbating fragile foreign exchange situation. Co
1981 Est.	: 138	910	1,240	-330	95	149	tinued drop in reserves expected to weaken commercial
1982 Est.	: 125	1,175	1,500	-325	110	165	:food import capacity.
•	:						1
AMAICA	:					0.47	
1977-80	: 68	1,876	2,308	- 432	202	267	:Business optimism following 1980 election increasing
1980 Prel. 1981 Est.	: 105 : 121	2,880 3,360	3,558 3,800	-678 -440	270 330	374 411	:capital inflows and direct investment. U.S. plans to stockpile Jamaican bauxite will help boost export
1982 Est.	: 130	4,000	4,250	-250	200	460	:earnings and lower trade deficit. Reserves should
1702 1800	:	,,000	.,250	-50		, , ,	:increase through 1982, increasing commercial food
	:						:import capacity.
	:						:
NICARAGUA	: 03	(12	E 0 1	()	1/5	67	Trade deficite one projected for
1977-80	: 93 : 87	643 503	581 717	62 -214	145 186	67 52	:Trade deficits are projected for near term while was :torn economy is restored. Large aid transfers and
1980 Prel. 1981 Est.	: 89	590	800	-214 -210	170	60	official capital inflows will help rebuild export
1982 Est.	: 93	660	900	- 240	190	70	sector and stabilize reserves, but import demand for
	:						:capital goods should rise significantly. Commercia:
	:						:import capacity should improve through 1982.
PERU	:	0.751	0.510	0.00	1.067	0.0	:
1977 - 80	: 1,048	2,751	2,512	239	1,064	90 Exportor	:Diversification of exports and move to export oil
1980 Prel. 1981 Est.	: 1,923 : 2,000	3,863 4,000	3,433 4,450			Exporter Exporter	:helping to offset low prices for copper. Projected :direct investment should increase imports, eliminat:
1981 Est.	: 2,000	4,525	5,150			Exporter	:trade surplus in 1981 and 1982. Debt service paymen
1702 1300	:	.,,,,,	-,		_,	,,,,,,,,	:will be lower in 1981 and 1982 than in 1980, unless
	:						:large proposed development loan is accepted. Reser
	:						:will continue to rise, and ability to import food
	:						:commercially will be generally unchanged through
							:1982.

NA = Not available.
Data quoted on a calendar year basis.

	: Co	ommodity P	roduction,	Disappeara	nce, and Ti	ade Data	1		Aid Calcul	ation	
Country, Commodity, and Year	:Actual or : : Forecast : :Production: :	Stocks		:Targeted	:Targeted : Ending	: Targ	geted port		nercial Capacity	: Food	s Quo l Aid eds
	: :1,000	Topo===	Kilograms	1 0	00 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
BOLIVIA	:	10115	KITOGLAMS	1,0	00 10115	TORS	DOTTALS	10115	DOTTALS	Tons	DOTTALS
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 438 : 435 : 465 : 484	48 45 40 31	93 87 93 93	$\frac{1}{2}$ / 696 $\frac{1}{2}$ / 697 $\frac{1}{1}$ / 729 $\frac{1}{1}$ / 743	49 40 31 37	259 257 255 265					
Roots and Tubers 1977/78-1980/81 1980/81 Pre1. 1981/82 Est. 1982/83 Est.	: 947 : 944 : 1,012 : 1,039	0 0 0 0	184 177 184 184	947 944 1,012 1,039	0 0 0 0	0 0 0 0					
Total 3/ 1981/82 Est. 1982/83 Est.	: : :	==	==	==	==	255 265	59 • 66	230 230	53 57	25 35	6 9
COLOMBIA	:					·					
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,024 : 2,122 : 2,075 : 2,125	456 643 462 412	89 97 89 89	4/ 2,457 5/ 2,765 4/ 2,560 4/ 2,615	483 462 412 417	460 462 435 495					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,156 : 2,348 : 2,400 : 2,425	0 0 0 0	82 86 83 83	2,131 2,312 2,240 2,287	0 0 0 0	0 0 0 0					
Total Above <u>3</u> / 1981/82 Est. 1982/83 Est.	: : :	 		 	 	435 495	77 93	675 650	120 125	0	0 0
Milk 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 1,966 : 2,200 : 2,000 : 2,200	0 0 0 0	79 86 79 79	2,055 2,305 2,160 2,203	0 0 0 0	89 105 160 3	28 1	185 175	35 38	0	0 0
Total 1981/82 Est. 1982/83 Est.	: : : :	==	==	==	==		105 94		155 163		0
DOMINICAN REPUBLIC	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 245 : 264 : 280 : 285	89 54 86 95	69 70 69 69	6/ 521 7 / 577 <u>6</u> / 546 <u>6</u> / 560	95 86 95 95	282 345 275 275					
Roots and Tubers 1977/78-1980/81 1980/81 Pre1. 1981/82 Est. 1982/83 Est.	: : 1,049 : 1,052 : 1,117 : 1,140	0 0 0 0	191 184 191 191	1,048 1,050 1,113 1,145	0 0 0 0	0 0 0 1					
Pulses 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 32 : 36 : 42 : 40	0 0 0	6 6 6	32 36 35 36	0 0 0 0	0 0 0 0					
See footnotes at	end of table									Cont	inued

	: : Co	ommodity P	roduction,	Disappeara	ance, and	Trade Data		:	Aid Calcul	ation	
		Stocks	:Per Capita :Actual or : Targeted : Intake	:Targeted	i :Targete	d: Targ	geted port		ercial Capacity	: Status : Food : Nee	Aid
	: :1,000	Tons	Kilograms	<u>1</u> ,(000 Tons -	1,000 <u>Tons</u>	Million Dollars		Million Dollars	1,000 Tons	Million Dollars
DOMINICAN REPUBLIC Continued	: • :										
Total Above <u>3</u> / 1981/82 Est. 1982/83 Est.	: : : :		 	. ==		275 275 .	58 62	250 310	53 70	25 0	5 0
1980/81 Prel. 1981/82 Est.	: 339 : 350 : 360 : 370	0 0 0	63 63 · 63 63	346 359 368 378	0 0 0 0	7 9 8 8	1 1	8 10	1 1	0 0	0 0
Total 1981/82 Est. 1982/83 Est.	: : : :	==	 	==	==	ΞΞ	59 63		54 71		5 0
ECUADOR	: :										
	361 : 457 : 466 : 481	126 76 123 157	62 64 62 62	8/ 657 9 / 717 8 / 687 8 / 705	114 123 157 173	289 307 255 240					
1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,059 : 2,070 : 2,075 : 2,080	0 0 0	269 258 269 269	2,059 2,070 2,220 2,290	0 0 0 0	0 0 145 210		·			
Total Above 3/ 1981/82 Est. 1982/83 Est.	: : :			==	(==	300 300	77 84	255 270	65 70	45 30	12 14
Milk 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	570 : 570 : 385 : 420 : 460	0 0 0	76 49 76 76	577 394 625 645	0 0 0 0	8 9 205 185	20 20	55 60	6 7	150 125	14 13
Total 1981/82 Est. 1982/83 Est.	:						97 104		71 77		26 27
EL SALVADOR	:										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 672 : 719 : 726 : 738	68 89 67 75	135 132 135 135	10/ 813 11/ 843 10/ 858 10/ 883	75 67 75 75	148 102 141 144					
Pulses 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 41 : 40 : 40 : 41	12 10 4 9	10 10 10 10	44 46 49 51	9 4 9 9	0 0 18 13					
Total 3/ 1981/82 Est. 1982/83 Est. See footnotes at e	: : : nd of table	 	==		 	160 155	43 45	85 85	23 25	75 70 Continue	20 20 d

:	Co	mmodity P	roduction,	Disappea	cance, and Tr	ade Data	ı :		Aid Calcul	ation	
	Forecast: Production:	Stocks		:Target	or:Actual or ed :Targeted e : Ending : Stocks	: Tar		Import	Capacity	: Food	ıs Quo 1 Aid eeds
: :	 1,000	Tons	Kilograms	<u>1</u> ,0	000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million
GUATEMALA :											
	1,038 1,185 1,150 1,177	84 49 78 88	166 175 166 166	$\frac{12}{13}/1,2$ $\frac{13}{12}/1,3$ $\frac{12}{12}/1,3$	74 78 05 88	200 218 165 160					
Pulses : 1977/78-1980/81 : 1980/81 Prel. : 1981/82 Est. : 1982/83 Est. :	77 81	0 0 0 0	12 13 12 12		32 0 37 0 37 0	7 10 6 5	٠.				
Total 3/ : 1981/82 Est. : 1982/83 Est. : :	 	 	 			172 166	33 34	125 125	24 26	47 41	9 8
HAITI :											
Major Cereals : 1977/78-1980/81 : 1980/81 Prel. : 1981/82 Est. : 1982/83 Est. :		26 0 0	90 86 90 90			151 184 265 270					
Roots and Tubers : 1977/78-1980/81 : 1980/81 Prel. : 1981/82 Est. : 1982/83 Est. :	146 148 149	0 0 0 0	26 25 26 26	1: 1:	46 0 48 0 53 0 57 0	0 0 1 2					
Pulses : 1977/78-1980/81 : 1980/81 Prel. : 1981/82 Est. : 1982/83 Est. :	60	0 0 0 0	13 10 13 13		70 0 50 0 73 0	0 0 13 17					
Total 3/ : 1981/82 Est. : 1982/83 Est. :	==	==			 _.	280 290	67 74	70 60	17 15	210 230	50 58
HONDURAS											
Major Cereals : 1977/78-1980/81 : 1980/81 Prel. : 1981/82 Est. : 1982/83 Est. :	364 359 400 410	58 81 42 64	100 101 100 100	16/ 50 15/ 50		110 111 125 105					
Pulses : 1977/78-1980/81 : 1980/81 Prel. : 1981/82 Est. : 1982/83 Est.		0 0 0 0	12 12 12 12		44 0 46 0 47 0 48 0	2 0 0 0					
Total <u>3</u> / 1981/82 Est. 1982/83 Est.					 	125 105	32 29	75 85	20 24	50 20	12 5

	: : C	ommodity l	Production,	Disappeara	nce, and Tr	ade Data	:		Aid Calcula	ition	
	Actual or : : Forecast : :Production: : :	Stocks		:Targeted : Usage		Targe Impo	ted :		ercial : Capacity : :		•
JAMAICA	: : :1,000	Tons	Kilograms	<u>1,000</u>	Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 17 : 21 : 17	14 13 1 9	104 120 104 104	17/ 424 18/ 462 17/ 434 17/ 435	11 1 9 9	404 429 425 420					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 180 : 180 : 184 : 186	0 0 0 0	81 80 81 81	180 180 184 186	0 0 0 0	0 0 0 0					
Total 3/ 1981/82 Est. 1982/83 Est.	: : :	==	==		 	425 420	105 110	500 575	120 150	0	0 0
NICARAGUA	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	258 287 315	47 59 104 72	124 131 124 124	19/ 337 20/ 367 19/ 367 19/ 387	72 104 72 72	104 125 20 65					
Pulses 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: : 49 : 60 : 65	10 7 20 24	20 20 20 20	49 55 56 58	16 20 24 31	6 8 0 0					
Total 3/ 1981/82 Est. 1982/83 Est.	: : : :	==	 	==	 	20 65	6 19	35 40	10 12	0 25	0 7
PERU	: :										
Major Cereals 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	987 : 785 : 1,000 : 1,110	195 200 250 198	100 104 100 100	$\begin{array}{c} $	198 250 198 198	1,116 1,548 1,160 1,135					
Roots and Tubers 1977/78-1980/81 1980/81 Prel. 1981/82 Est. 1982/83 Est.	: 2,602 : 2,435 : 2,684 : 2,840	0 0 0 0	154 134 154 154	2,602 2,435 2,784 2,855	0 0 0 0	0 0 100 15					
Total 3/ 1981/82 Est. 1982/83 Est.	: : : :	==	==	=	==	1,190 1,140	260 265	1,230 1,370	270 320	0	0
Data quoted on a 1			asis.	. 12/	Include	lood are	£ 177 000				
1/ Includes feed us 2/ Includes feed us 3/ Cereal equivales 4/ Includes feed us 5/ Includes feed us 6/ Includes feed us 7/ Includes feed us 8/ Includes feed us 9/ Includes feed us 10/ Includes feed us 11/ Includes feed us	se of 230,00 nt. se of 129,00 se of 150,00 se of 144,00 se of 177,00 se of 201,00 se of 193,00	0 tons.		$ \begin{array}{r} \hline 13/\\ \hline 14/\\ 15/\\ \hline 16/\\ \hline 17/\\ \hline 18/\\ \hline 19/\\ \hline 20/\\ \hline 21/ \end{array} $	Includes f Includes f Includes f Includes f Includes f Includes f Includes f Includes f Includes f Includes f	eed use o	f 150,000 f 150,000 f 108,000 f 126,000 f 195,000 f 192,000 f 27,000 f 19,000 f 401,000	tons. tons. tons. tons. tons. tons. tons. tons. tons.			

and Year	: Com		ilability, I	Disappear	rance,	: :	Aid Calcu	: Commodit	v and		
	: Gross :Per Capita :Avail- : Targeted :ability : Intake : 1/:		: Total : :Targeted:	Targeted Import Requirement		: : : Commercial Import : : Capacity : : :		Nutrition-Based Food Aid Needs		: Share of Daily : Per Capita : Caloric Intake : (1975-77)	
	: 1,000 : <u>Tons</u>	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity	Percent
BOLIVIA	: :									: :	
Major Cereals 1981/82 Est. 1982/83 Est.	: 474 : 478	113 113	779 808	305 330						:Wheat :Rice :Corn :Cassava	18.3 7.4 12.0 4.6
Roots and Tubers 1981/82 Est. 1982/83 Est.	: : 1,012 : 1,039	212 212	1,247 1,279	235 240						:Potatoes : Total	9.3 51.6
Total 3/ 1981/82 Est. 1982/83 Est.	: : :			372 395	87 101	230 230	53 57	142 165	34 44	: : :	
COLOMBIA	:									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: 2,125 : 2,120	81 81	2,305 2,345	180 225						:Wheat :Rice :Corn :Plantains	5.6 13.1 11.7 6.6
Root and Tubers <u>4/</u> 1981/82 Est. 1982/83 Est.	: 2,400 : 2,425	70 70	2,160 2,200	(240) (225)						:Milk, Cow : Total :	5.2 42.2
Total Above <u>3</u> / 1981/82 Est. 1982/83 Est.	: :			101 148	18 28	675 650	120 125	0	0 0	:	
Milk, Cow 1981/82 Est. 1982/83 Est.	: 2,000 : 2,200	75 76	2,140 2,195	140 (5)	25 (1)	185 175	35 38	0	0 · 0	: :	
Total 1981/82 Est. 1982/83 Est.	: : :	 	 		43 27	 	155 163		- 0 0	: : :	
DOMINICAN REPUBLIC	: :									: : :	
Major Cereals 1981/82 Est. 1982/83 Est.	: 271 : 285	86 86	741 750	470 465						:Wheat :Rice :Cassava :Plantains	10.4 19.6 3.3 8.9
Roots and Tubers <u>5/</u> 1981/82 Est. 1982/83 Est.	: : 1,117 : 1,140	186 186	1,137 1,165	20 25						:Bananas :Beans, Dry :Milk, Cow : Total	3.4
Pulses 1981/82 Est. 1982/83 Est.	: : 42 : 40	7 7	44 45	2 5						:	
Total Above 3/ 1981/82 Est. 1982/83 Est.	: : :	 		478 480	101 108	250 310	53 70	228 170	48 38	:	
Milk, Cow 1981/82 Est. 1982/83 Est.	: : 360 : 370	64 64	373 383	13 13	2 15	8 10	1	5 3	1 1	: : :	
Total 1981/82 Est. 1982/83 Est.	: :	 		 	103 123	==	54 71		49 52	: : :	
See footnotes at	:	ible.								: Cont	inued

	: and Trade Data :						: Aid Calculation				and
and Year	:Avail- :ability	Gross :Per Capita: Total : rail- : Targeted :Targeted: cility : Intake :Usage 2/: 1/ : : :		Import Requirement		: : Commercial Import : Capacity		: Nutrition-Based		: Share of Daily : Per Capita : Caloric Intake : (1975-77)	
<u>ECUADOR</u>	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	: :Commodity P:	ercent
Major Cereals 1981/82 Est. 1982/83 Est.	: : 432 : 465	90 90	783 813	351 348						: :Wheat :Rice :Corn :Potatoes	11.7 10.0 9.5 5.6
1982/83 Est.	2,075 2,080	234 231	2,215 2,255	140 175						:Cassava :Plantains :Milk, Cow : Total	2.6 4.8 7.6 51.8
Total Above 3/ 1981/82 Est. 1982/83 Est.	: : :	 		385 390	100 110	255 270	65 70	130 120	35 40	: : : : : : : : : : : : : : : : : : : :	
Milk, Cow 1981/82 Est. 1982/83 Est.	: : 420 : 460	99 99	815 845	395 385	42 44	55 60	6 7	340 325	36 37	: : : : : : : : : : : : : : : : : : : :	
Total 1981/82 Est. 1982/83 Est.	: : :	==	==		142 154	==	71 77	 	71 77	: : :	
EL SALVADOR	: :									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : · 718 : · 738	150 150	930 960	212 222						:Wheat :Rice :Corn :Sorghum	6.5 3.1 36.8 9.2
Pulses 1981/82 Est. 1982/83 Est.	: : 40 : 41	11 11	66 61	20 16						:Pulses : Total	4.2 59.8
Total 3/ 1981/82 1982/83	: : : :	<u></u>	==	238 242	65 70	85 85	23 25	153 157	42 45	: : :	
GUATEMALA	: :									:	
Major Cereals	: : 1,140 : 1,177	144 144	1,130 1,160	(10) (17)						:Wheat :Corn :Beans, Dry : Total	7.1 49.3 4.5 60.9
Pulses 1981/82 Est. 1982/83 Est.	: 81 : 85	12 12	88 90	7 5						:	
Total 3/ 1981/82 1982/83	: : :			(2) (10)	(1)	125 1 2 5	24 26	0 0	0 0	: : :	
HAITI	: :									:	
Major Cereals 1981/82 Est. 1982/83 Est.	: : 423 : 427		861 882	438 455						: Wheat :Rice :Corn :Sorghum	7.0 10.3 15.6 16.5
Cassava 1981/82 Est. 1982/83 Est.	: : 149 : 150		194 198	45 48						:Pulses :Cassava : Total	7.2 2.7 59.3
Pulses 1981/82 Est. 1982/83 Est.	: 60 : 60		111 113	51 53						:	•
Total 3/ 1981/82 Est. 1982/83 Est.	:			510 520	120 134	70 60	17 15	440 460	103 119	:	
See footnotes at	end of ta	ble.						,			nued

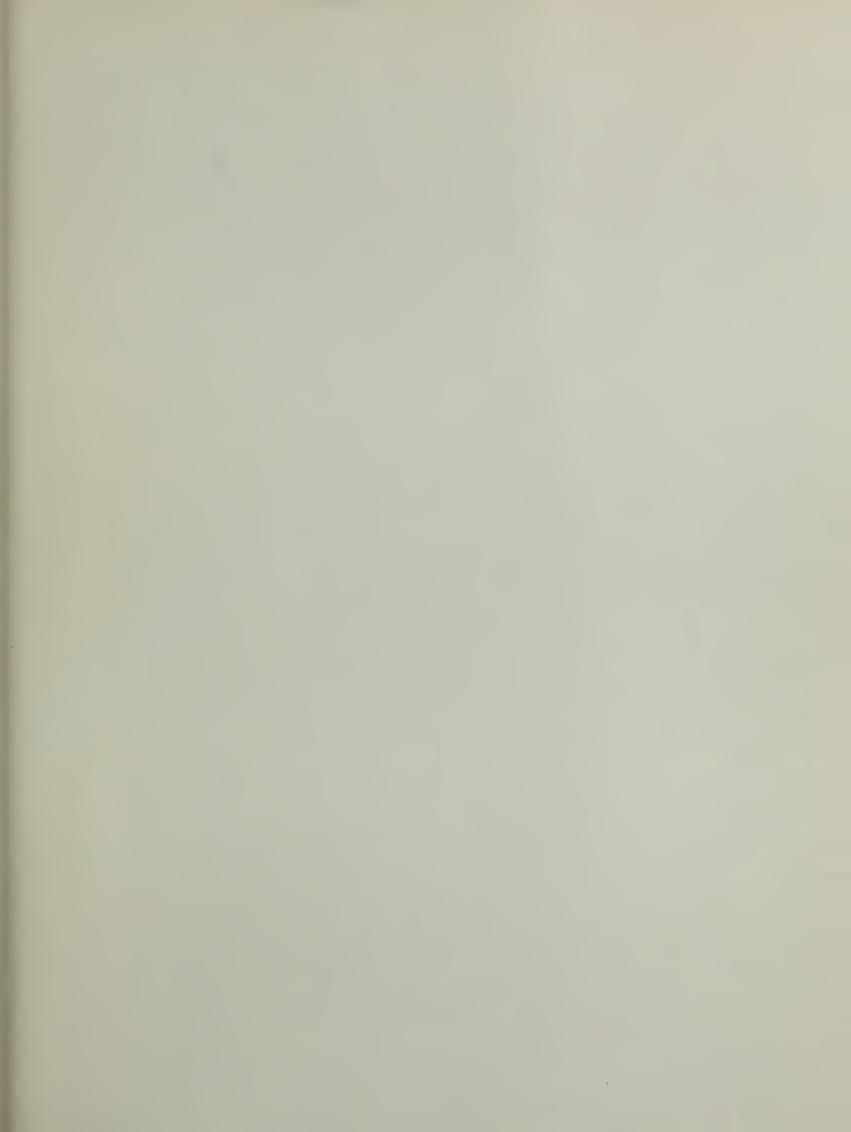
and Year	Commodity Availability, Disappearants and Trade Data Gross:Per-Capita: Total: Targete Avail-: Targeted: Targeted: Importability: Intake: Usage 2/: Requires				geted port	ed : Aid Calculation et : Nutrition-Based t : Commercial Import : Food Aid					: Commodity and : Share of Daily : Per Capita	
	:ability :		:Usage <u>2</u> /:			: Capacity :				: Caloric Intake : (1975-77)		
	: 1,000 : Tons	Kilograms	1,000 Tons	1,000 Tons	Million Dollars	1,000 Tons	Million Dollars	1,000 Tons	Million	: :Commodity P	'ercent	
HONDURAS	: :									: :		
Major Cereals 1981/82 Est. 1982/83 Est.	: 378 : 410	135 135	621 650	243 240						:Wheat :Corn :Beans, Dry : Total	5.8 45.0 3.2 54.0	
Pulses 1981/82 Est. 1982/83 Est.	: : 47 : 48	10 10	56 56	(9) . (8)						: : :		
Total 3/ 1981/82 Est. 1982/83 Est.	: : :			232 230	60 65	75 85	20 24	157 145	40 41	: : :		
JAMAICA	: :									: :		
	: : : 9 : 17	89 89	399 422	390 405						: :Wheat :Rice :Corn :Sweet	22.1 7.7 3.2	
Roots & Tubers 1981/82 Est.	: : 184 : 186	61 61	139 141	(45) (45)						: Potatoes :Yams : Total	$\begin{array}{c} .7 \\ \underline{5.3} \\ \overline{39.0} \end{array}$	
Total 3/ 1981/92 Est. 1982/83 Est.	: : :	Ξ		376 391	90 102	500 575	120 150	0 0	0 0	: :		
NICARAGUA	: :									: :		
Major Cereals 1981/82 Est. 1982/83 Est.	: : 347 : 322	113 112	347 355	0 33						:Corn :Wheat :Rice :Beans, Dry	28.0 6.0 6.1 7.2 47.3	
Pulses 1981/82 Est. 1982/83 Est.	: : 56 : 58	19 19	54 57	(2) (1)						: Total : : :	47.3	
Total 3/ 1981782 Est. 1982/83 Est.	: : :			(3) 31	(1) 9	35 40	10 12	0 0	0 0	: : :		
PERU	:									:		
Major Cereals 1981/82 Est. 1982/83 Est.	: : 1,052 : 1,110	111 111	2,273 2,381	1,221 1,271						: Wheat :Rice :Corn	17.8 11.4 9.5	
Roots and Tubers <u>4/</u> 1981/82 Est. 1982/83 Est.	: : 2,684 : 2,840	171 172	3,124 3,225	440 385						:Potatoes :Cassava :Plantains : Total	6.7 2.4 2.9 50.7	
Total 3/ 1981782 1982/83	: : : : 		 	1,348 1,382		1,230 1,370	270 320	118 12	25 5	:		

Parentheses imply exports or export availability. Data quoted on local marketing-year basis.

 $[\]frac{1}{2}$ / Includes production plus beginning stocks minus ending stocks shown in status quo table. $\frac{3}{4}$ / Includes feed use noted in status quo table. $\frac{4}{4}$ / Includes plantains. $\frac{4}{5}$ / Includes plantains and bananas.







UNITED STATES DEPARTMENT OF AGRICULTURE WASHINGTON, D.C. 20250

POSTAGE AND FEES PAID U.S. DEPARTMENT OF AGRICULTURE AGR 101 THIRD CLASS

